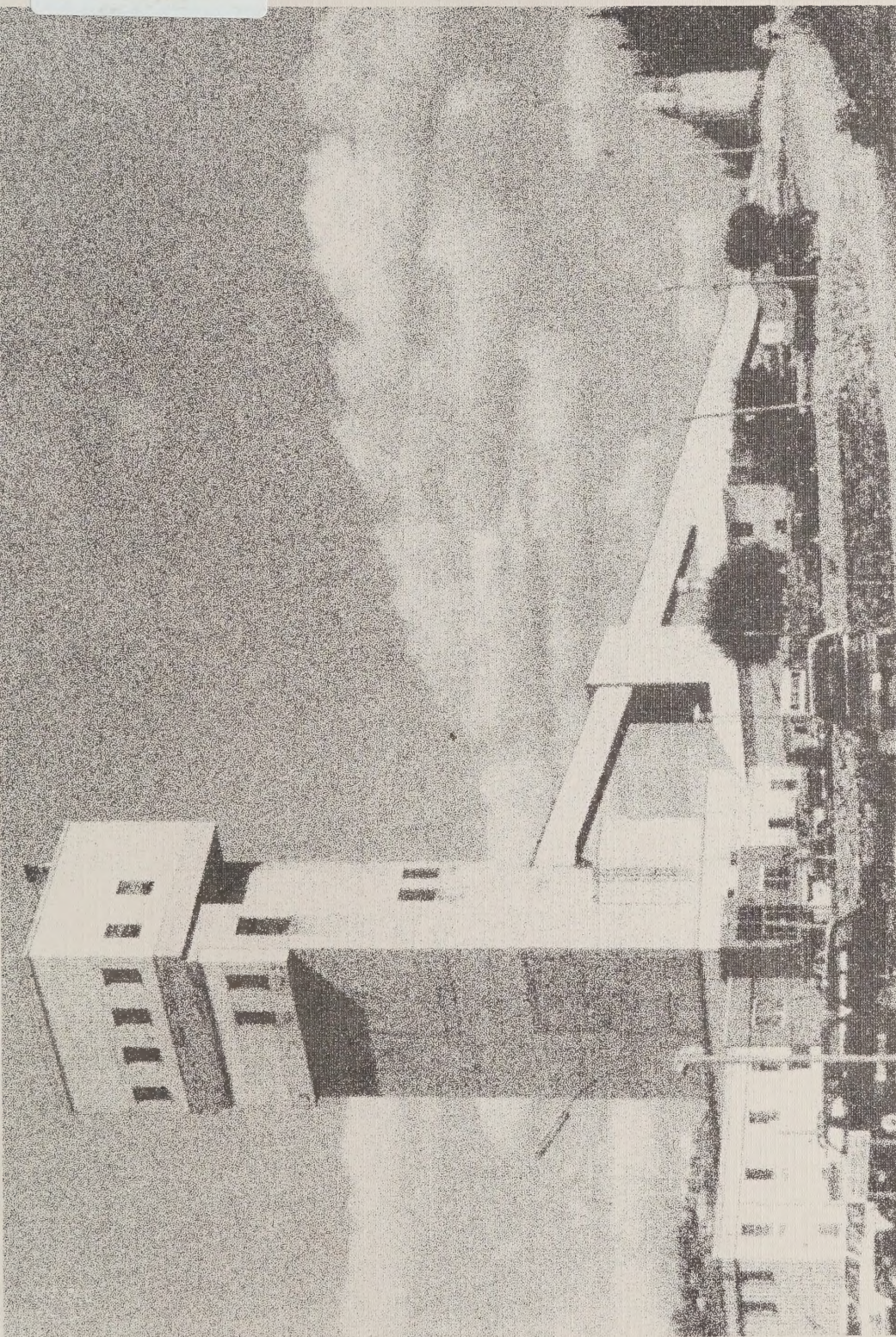


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1988

Ministry of
Northern Development
Ontario and Mines





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**Information and Statistics Section
Mineral Development and Lands Branch
Ministry of Northern Development and Mines**

Although the Ontario Ministry of Northern Development and Mines has made every effort to ensure the accuracy of the data appearing in this publication, it cannot assume responsibility for any inaccuracy which may occur.

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INTRODUCTION

The 1988 edition of the Mid Year Mining Statistics is based on the results of the Census questionnaire which we send out yearly to mining companies operating in Ontario.

Statistics contained in this publication include exploration and development expenditures by year and by mining division, mineral production in Ontario, employment in mining, claims, assessment work and much more valuable information.

Some of the figures published in previous editions were revised in this booklet.

The following abbreviations were used wherever applicable:

p	preliminary
KEN.	Kenora Mining Division
PAT.	Patricia Mining Division
R.L.	Red Lake Mining Division
TH.B.	Thunder Bay Mining Division
POR.	Porcupine Mining Division
S.S.M.	Sault Ste. Marie Mining Division
L.L.	Larder Lake Mining Division
SUD.	Sudbury Mining Division
S.O.	Southern Ontario Mining Division
P.W.	Province Wide



METAL PRODUCTION IN ONTARIO
BY COMMODITY
(PRELIMINARY)

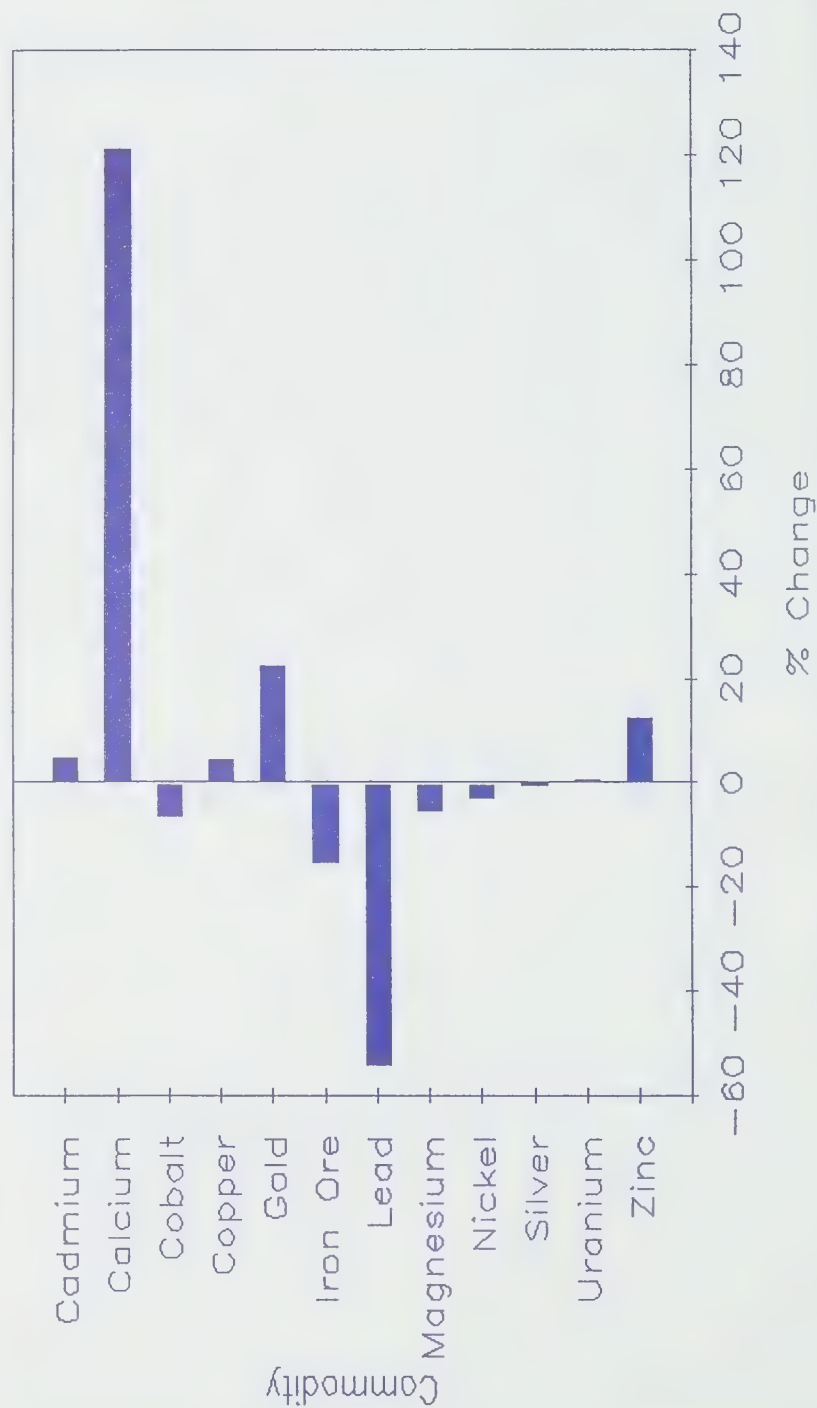
Mineral Commodity	Unit	1988 Jan. - June	1987 Jan. - June	% Change '88 vs '87 (Jan. - June)
Cadmium	kg	422 306	402 147	5.0
Calcium	kg	423 027	191 125	121.3
Cobalt	kg	1 037 569	1 113 750	-6.8
Copper	Kg	155 455 237	148 168 912	4.9
Gold	G	29 271 742	23 875 139	22.6
Iron Ore	Tonne	1 444 074	1 713 445	-15.7
Lead	Kg	1 266 268	2 771 485	-54.3
Magnesium	Kg	3 602 954	3 819 185	-5.7
Nickel	Kg	73 531 524	76 034 747	-3.3
Silver	Kg	201 550	202 050	-0.2
Uranium	Kg	2 183 703	2 169 955	0.6
Zinc	Kg	171 225 533	151 797 805	12.8

Source: Information and Statistics Section, MNDM

METAL PRODUCTION IN ONTARIO

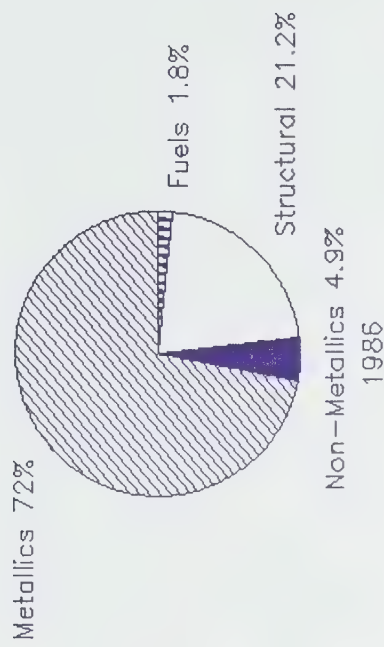
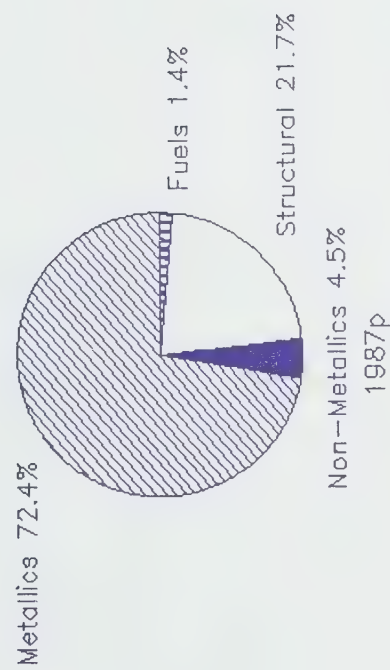
BY COMMODITY

% CHANGE '88 JAN.-JUNE VS '87 JAN.-JUNE
(PRELIMINARY)



Source: Information and Statistics Section, MNDM

TOTAL VALUE OF MINERAL PRODUCTION IN ONTARIO 1987p AND 1986



Source: Information and Statistics Section, MNDM

SUMMARY OF
METAL PRODUCTION IN ONTARIO
BY MINE CLASSIFICATION
(PRELIMINARY)

Mine Classification	Mineral Commodity	Unit	1988		1987		% Change '88 vs '87 (Jan. -June)
			Jan. -June		Jan. -June		
Gold	Gold	G	27	918 872	22	307 454	25.2
	Silver	kg		2 826		2 417	16.9
Silver	Silver	kg		24 165		0	0.0
Nickel	Nickel	Kg	73	531 524	76	034 747	-3.3
	Copper	Kg	85	269 357	73	313 233	16.3
	Cobalt	Kg	1	037 569	1	113 750	-6.8
	Gold	G		811 814		795 037	2.1
	Silver	Kg		29 950		28 322	5.7
Zinc-Copper-Lead	Copper	Kg	70	185 880	74	855 679	-6.2
	Zinc	Kg	171	225 533	151	797 805	12.8
	Lead	Kg	1	266 268	2	771 485	-54.3
	Gold	G		541 056		772 648	-30.0
	Silver	Kg		144 609		171 311	-15.6
	Cadmium	Kg		422 306		402 147	5.0
Uranium	Uranium	Kg	2	183 703	2	169 955	0.6
Iron	Iron Ore	Tonne	1	444 074	1	713 445	-15.7
Magnesium	Magnesium	Kg	3	602 954	3	819 185	-5.7
	Calcium	Kg		423 027		191 125	121.3

Source: Information and Statistics Section, MNDM

SUMMARY OF MINING OPERATIONS IN ONTARIO, 1987

(PRELIMINARY)

Name of Company	Mine Classification	Average No. Employees	Ore Mined Tonnes	Ore Milled Tonnes	Development work (1) Metres	Diamond Drilling Metres
Ateba Mines Inc.	Gold	8	(Processing Stockpiled ore)	-	-	-
Canamax Resources Inc. - Bell Creek Mine	"	73	61 404	51 426	3 952	462
Dickenson Mines Ltd. - Arthur White Mine	"	346	212 065	219 666	1 398	24 415
Falconbridge Ltd. - Hoyle Pond Mine - Owl Creek	"	89 13	100 690 207 603	100 690 174 506	2 463 -	33 541 1 228
Giant Yellowknife Mines Ltd. (Timmins Division)	"					
- No. 1 Mine	)		636 696		2 611	9 649
- No. 1 Mine #3 Pit	)		567 006		-	-
- No. 1 Mine #4 Pit	)		11 152		-	6 992
- Delnite Pit	)		412 305		-	-
- Ross Mine	)	760	198 182		969	4 889
- Schumacher Mine	)		156 007		1 982	6 049
- Timmins Surface	)		140 182		-	-
- No. 1 Mine Concentrator	)		-	864 375	-	-
- Schumacher Mine Concentrator	)		-	901 291	-	-
Golden Shield Resources Ltd. -Kerr Mine Division -Mirado Mine	"	347 22	338 076 61 207	338 076 49 518	883 457	5 091 15 850
Hemlo Gold Mines Inc. (Golden Giant Mine)	"	266	883 967	884 979	3 302	7 163

SUMMARY OF MINING OPERATIONS IN ONTARIO, 1987

(PRELIMINARY)

Name of Company	Mine Classification	Av. No. Employees	Ore Mined Tonnes	Ore Milled Tonnes	Development work (1) Metres	Diamond Drilling Metres
Lac Minerals Ltd.	Gold					
- Lake Shore Mine		15	6 607	10 867	736	4 844
- Macassa Div.		290	134 286	134 653	4 416	13 441
- Page Williams Mine		410	1 229 603	1 223 519	25 889	28 296
Noramco Mining Corp.	"					
- Golden Rose Mine		33	30 661	23 209	763	4 346
Orofino Resources Ltd	"					
- Scadding Mine		8	87 090	12 226	-	2 483
- Norstar Mine		11	-	29 457	-	-
Placer Dome Inc.	"					
- Campbell Red Lake Mine		487	355 273	355 273	7 304	17 868
- Detour Lake Mine		181	482 489	748 511	5 219	21 950
- Dome Mine		769	993 639	986 201	4 841	20 137
Renabie Gold Mines Ltd	"	184	199 548	200 259	2 725	6 440
Teck-Corona Corp.	"					
- David Bell Mine		182	357 034	364 730	20 205	2 558
Total:	Gold	4 494	7 862 772	7 673 432	90 115	237 692

SUMMARY OF MINING OPERATIONS IN ONTARIO, 1987

(PRELIMINARY)

Name of Company	Mine Classification	Av. No. Employees	Ore Mined	Ore Milled	Development work (1)	Diamond Drilling
			Tonnes	Tonnes	Metres	Metres
The Adams Mine	Iron	374	3 738 490	3 654 732	0 P	640
Algoma Steel Corpn-Algoma Ore Div.		346	1 477 864	1 467 380	3 273	-
Sherman Mine		371	3 806 626	3 756 251	0 P	-
Total:	Iron	1 091	9 022 980	8 878 363	3 273	640
Denison Mines Ltd.	Uranium	1 695	2 998 236	2 341 573	26 984	11 784
Rio Algom Ltd.						
- Panel Mine		676	917 073	917 073	10 008	4 267
- Stanleigh Mine		572	713 586	635 029	12 229	9 158
- Quirke Mine		1 107	1 519 938	1 496 038	10 512	6 610
Total:	Uranium	4 050	6 148 833	5 389 713	59 733	31 819
Falconbridge Limited-Kidd Creek Div.	Zinc-Copper-Lead					
- No. 1 Mine			3 205 061	)	6 573	6 046
- No. 2 Mine		1 829	1 040 411	) 4 245 470	4 680	12 377
Mattabi Mines Ltd.		209	587 550	844 789	1 674	9 102
Noranda Minerals Inc.						
- Lyon Lake Div.		113	254 846	(Incl above)	6 083	29 112
- Geco Div.		525	1 278 890	1 278 890	6 038	26 746
Total:	Zinc-Copper-Lead	2 676	6 366 758	6 369 149	25 048	83 383

op ---- open pit

SUMMARY OF MINING OPERATIONS IN ONTARIO, 1987

(PRELIMINARY)

Name of Company	Mine Classification	Av. No Employees	Ore Mined Tonnes	Ore Milled Tonnes	Development work (1) Metres	Diamond Drilling Metres
Agnico - Eagle Mines Ltd						
- Castle Mine		)	7 210)		
- Langis Mine		) 128	10 516	) 25 862	-	34 686
- Temiskaming Mine		)	17 340)		
Total:						
	Silver	128	35 066	25 862	-	34 686
Falconbridge Ltd						
- Craig Mine	Nickel (Included onaping)		52 645	-	1 757	19 409
- East Mine		151	223 309	-	210	237
- Fraser Mine		226	603 811	-	1 684	18 287
- Lockerby Mine		254	556 913	-	1 101	4 344
- No. 1 Shaft Open Pit	(Incl. East)		273 386	-	-	148
- Onaping Mine		201	223 836	-	1 178	318
- Strathcona Mine		313	484 436	-	1 523	6 619
- Falconbridge Mill		45	-	492 802	-	-
- Strathcona Mill		129	-	1 896 016	-	-
- All Other Departments		619	-	-	-	-
Sub total:						
	Nickel	1 938	2 418 336	2 388 818	7 453	49 362

SUMMARY OF MINING OPERATIONS IN ONTARIO, 1987

(PRELIMINARY)

Name of Company	Mine Classification	Av. No Employees	Ore Mined Tonnes	Ore Milled Tonnes	Development work (1) Metres	Diamond Drilling Metres
Inco Limited - Ontario Division	Nickel					
- Clarabelle Open Pit	)		246 536)))
- C.C. North Mine	)		617 642)))
- C.C. South Mine	)		1 059 874)))
- Creighton #3 & #9 Shafts	)		1 634 141)))
- Crean Hill Mine	)		141 311)))
- Garson Mine Extension	)	5 785	281 508	)	48 346	57 568
- Frood Mine	)		1 881 890)))
- Levack Mine	)		891 096)))
- Little Stobie Mine	)		992 427)))
- McCreedy Mine	)		645 523)))
- Stobie Mine	)		2 056 642)))
- Sudbury District Mills	)		-	10 460 840		
Sub total:	Nickel	5 785	10 448 590	10 460 840	48 346	57 568
Total:	Nickel	7 723	2 866 926	12 849 658	55 799	106 930

Note: (1) Development work includes Drifting, Crosscutting, Raising & Internal Ramps.

Source: Information and Statistics Section, MNQM

SUMMARY OF EMPLOYMENT, 1987

(PRELIMINARY)

Smelters, Refineries, Metallurgical Works & Acid Plants:

Name of Company =====	No. of Employees =====
Inco Ltd.	
-Smelter Complex	1 089
-Copper Refinery	575
-Nickel Refinery	555
-Port Colborne Refinery	364
Falconbridge Ltd.	
-Smelter	259
-Kidd Creek Zinc Plant	309
-Kidd Creek Copper Refinery	216
Timminco Metals	427
Dofasco Inc. (Blast Furnaces)	443
Stelco Inc.	
-Hilton; Blast Furnaces	103
-Lake Erie; Blast Furnaces	265
Eldorado Resources Ltd.	
-Port Hope	371
-Blind River	164
The Algoma Steel Corp. Ltd. (Blast Furnaces)	257
Agnico-Eagle Mines Ltd. (Refinery)	9
Total:	5 406

Note: Total Employment in 1987 for Metal Mines, Mills, Smelters, Refineries, Metallurgical and Acid Plants was 25 568

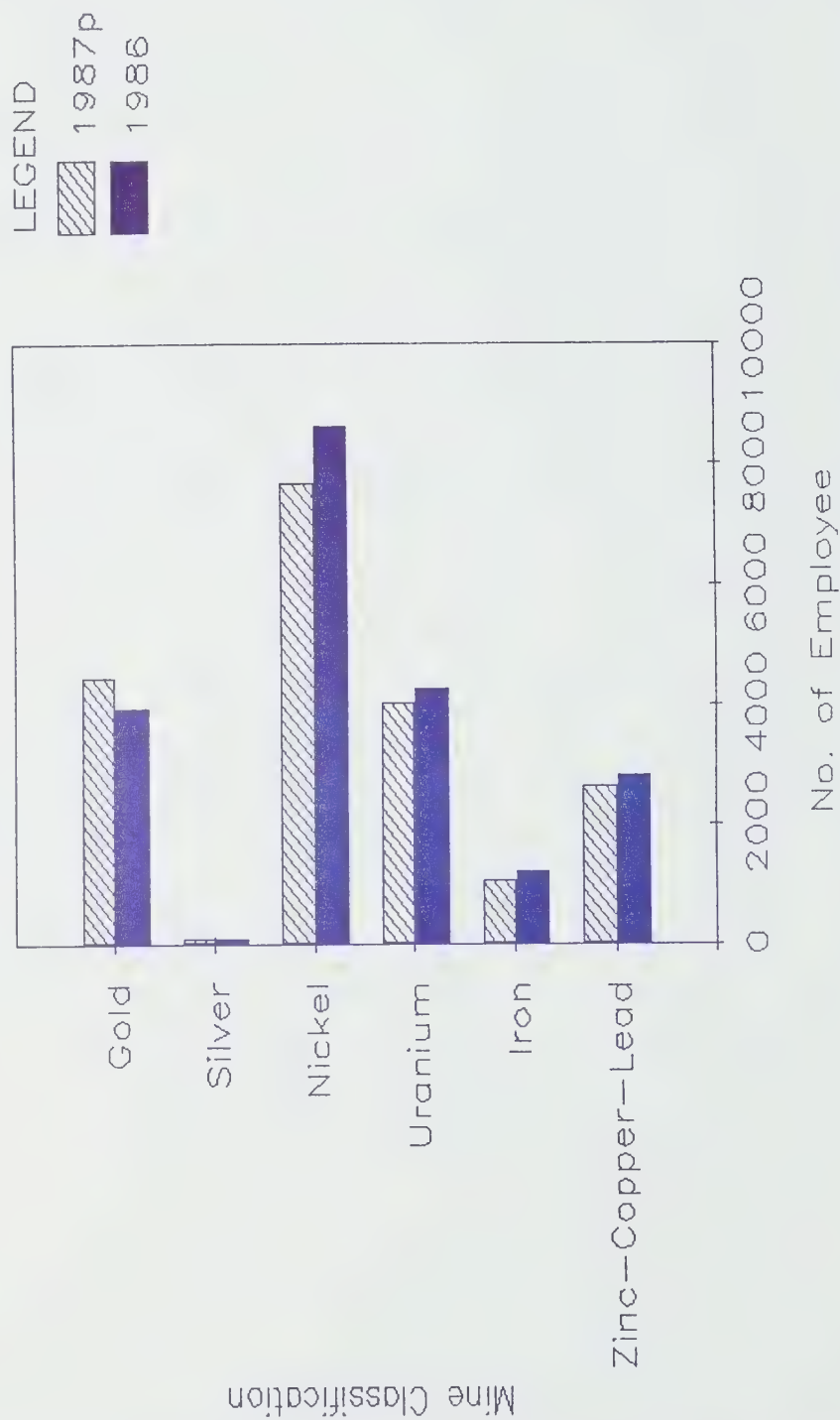
Source: Information and Statistics Section, MNM

SUMMARY OF EMPLOYMENT
METAL MINES IN ONTARIO
BY MINE CLASSIFICATION
(PRELIMINARY)

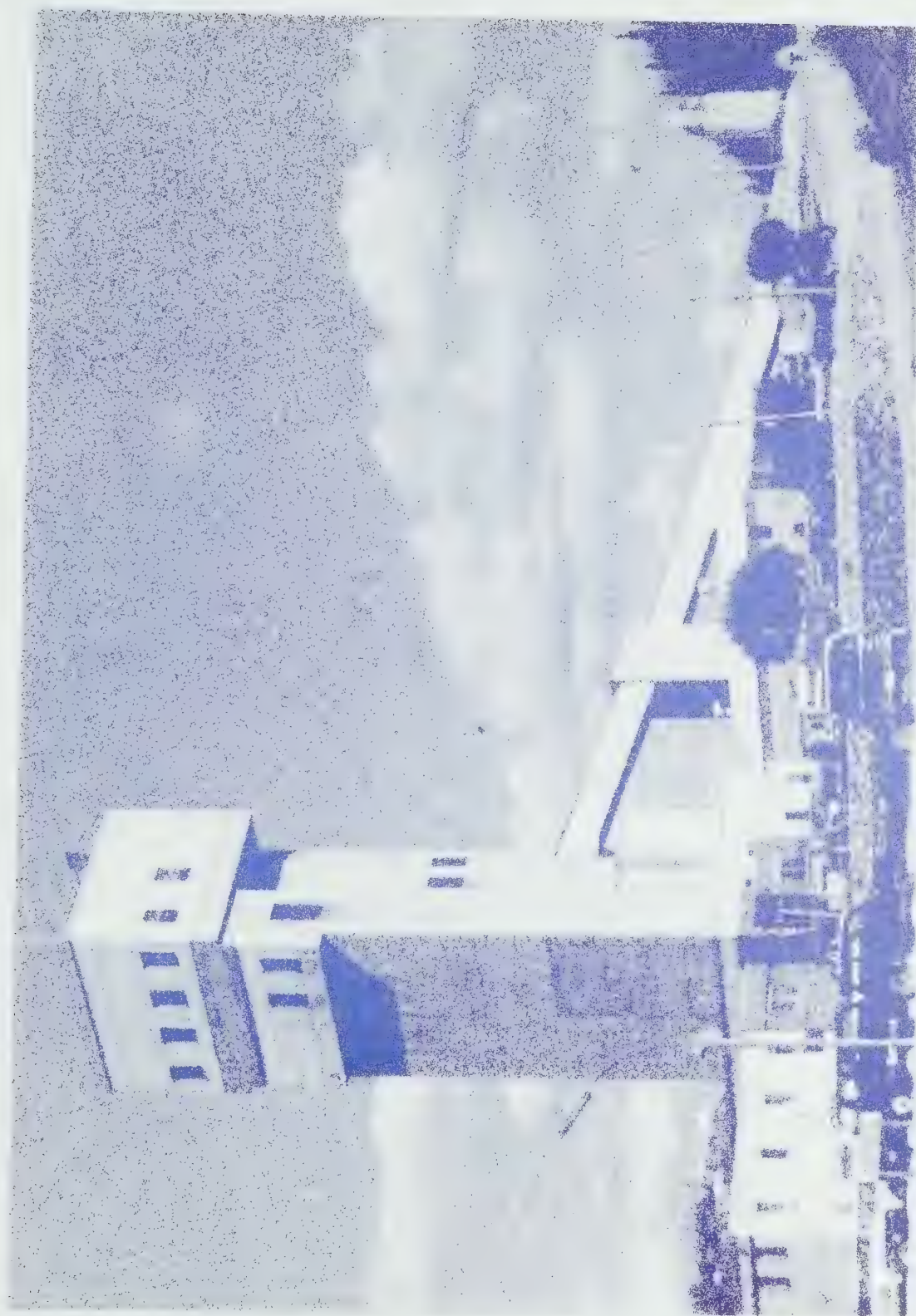
Mine Classification	1987	1986	% Change '87 vs '86
Gold	4 494	3 973	13.1
Silver	128	101	26.7
Nickel	7 723	8 642	-10.6
Zinc-Copper-Lead	2 676	2 861	-6.5
Uranium	4 050	4 303	-5.9
Iron	1 091	1 239	-11.9
Total	20 162	21 119	-4.5

Source: Information and Statistics Section, MNDM

SUMMARY OF EMPLOYMENT METAL MINES IN ONTARIO BY MINE CLASSIFICATION



Source: Information and Statistics Section, MNDM



NEW MINES AND EXPANSIONS IN ONTARIO

Operator	Location	Products	Current Employees	Remarks
American Barrick Resources Corp. Holt-McDermott Mine	Kirkland Lake	Gold	31	- Official opening Aug. 9/88 - 230 eventual jobs
Lake Asbestos of Canada Aquarius Mine	Timmins	Gold	65	- Production began Jan. 6/88
Ateba Mines Incorp.	Beardmore	Gold	30	- Mill officially opened May/88
Canamax Res.Inc. Kremzar Prop.	Wawa	Gold	75	- Production Sept./88
Eastmaque Gold Mines Ltd.	Kirkland Lake	Gold	33	- Gold recovery from tailings, began Jan/88
ERG Resources Inc.	Timmins	Gold		- Tailings plant to begin production late /88 - 50-70 permanent jobs
Muscocho Expl Ltd.- Magnacon Mine - Magino Proj.	Wawa Dubreuilville	Gold Gold	72	- Production Jan./89, 150 employees - Production 1988
Placer Dome Inc. Dona Lake Mine	Pickle Lake	Gold		- Production /89, 120 eventual employees
St. Andrew Goldfields Ltd.	Stock Twp.	Gold		- Production /89
Bond Gold Canada Inc. Golden Patricia Property	Pickle Lake	Gold		- Production late/88
Rockford Mines Inc. Barker-Larder O.P.	Larder Lake	Gold		- Production late /88
Citadel Gold Mines Inc. Surluga Mine	Wawa	Gold		- Production /89

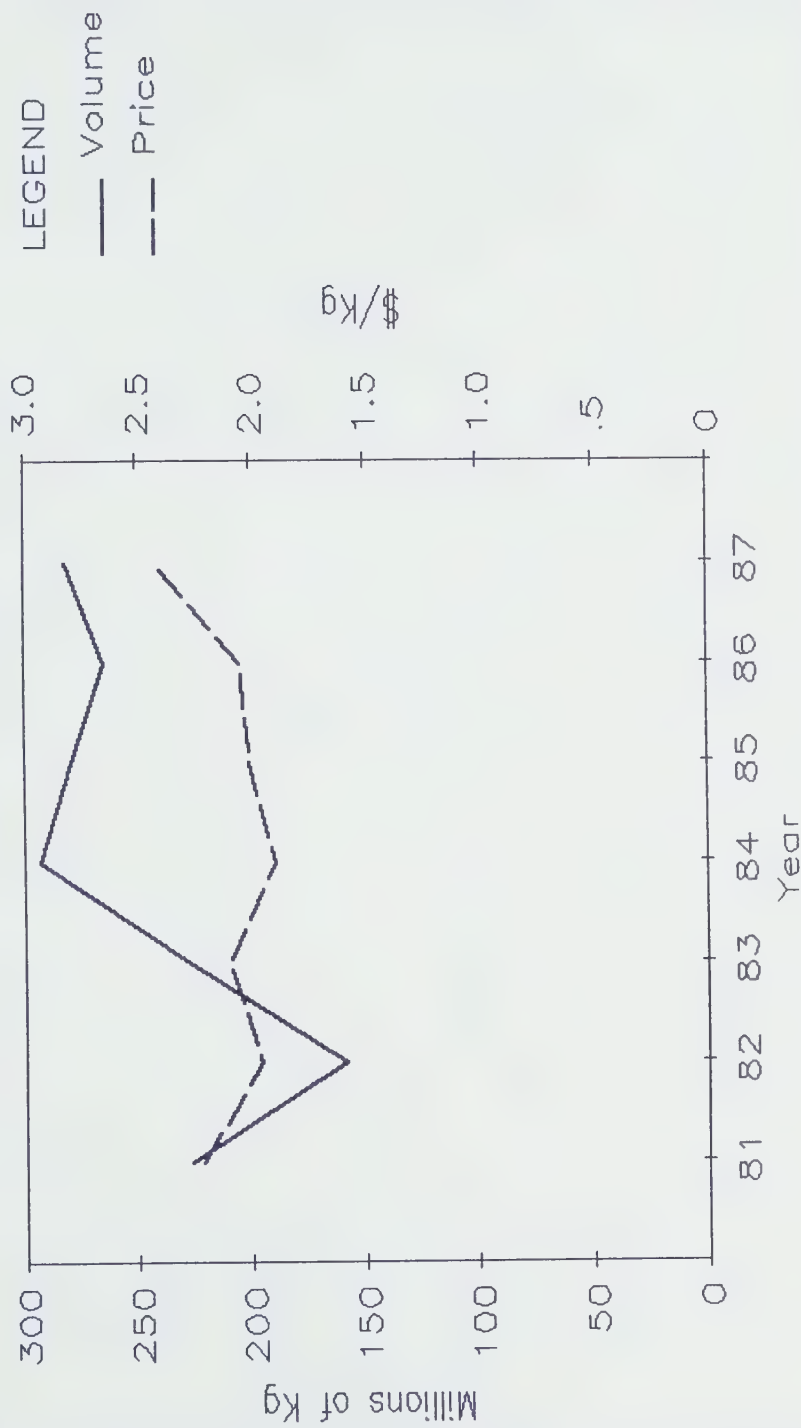
Source: Information and Statistics Section, MNDM

AVERAGE METAL PRICES (CANADIAN FUNDS)

Mineral Commodity	Unit	1988 Jan.-June	1987 Jan.-June	% Change '88 vs '87 (Jan.-June)
Cadmium	kg	19.70	4.17	372.4
Calcium	kg	10.60	12.01	-11.7
Cobalt(Shot Cathode)	kg	19.97	20.61	-3.1
Copper	Kg	3.07	2.03	51.2
Gold	G	18.17	18.36	-1.0
Lead	Kg	0.98	0.89	10.1
Magnesium	Kg	4.23	4.69	-9.8
Nickel(Metal)	Kg	16.81	4.27	293.7
Silver	Kg	273.65	296.19	-7.6
Uranium(U3O8)	Kg	44.43	49.62	-10.5
Zinc	Kg	1.45	1.21	19.8

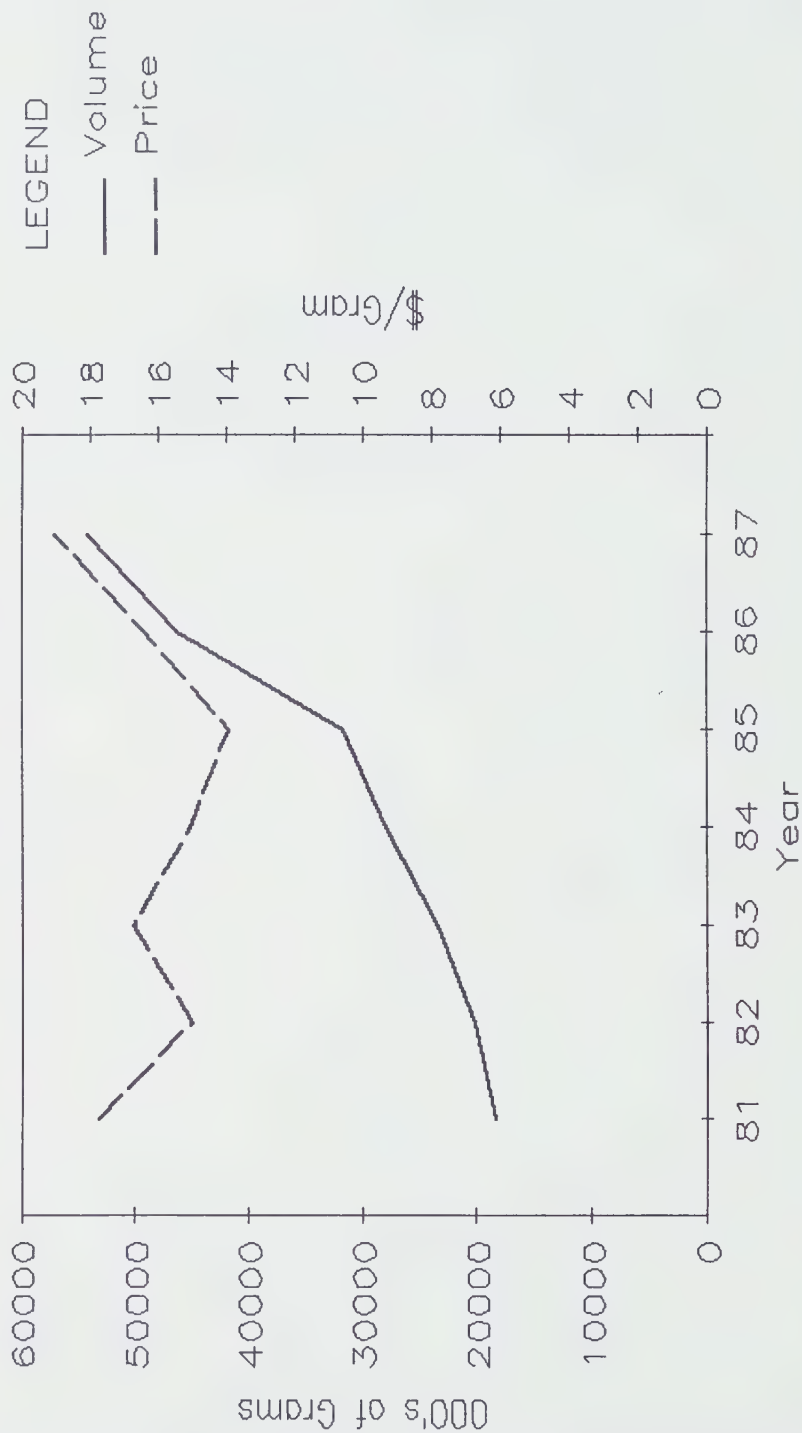
Source: Energy Mines and Resources, Canada

ONTARIO COPPER PRODUCTION AND COPPER PRICE IN CANADIAN DOLLARS 1981 - 1987p



Source: Information and Statistics Section, MNDM

ONTARIO GOLD PRODUCTION AND GOLD PRICE IN CANADIAN DOLLARS 1981 - 1987p



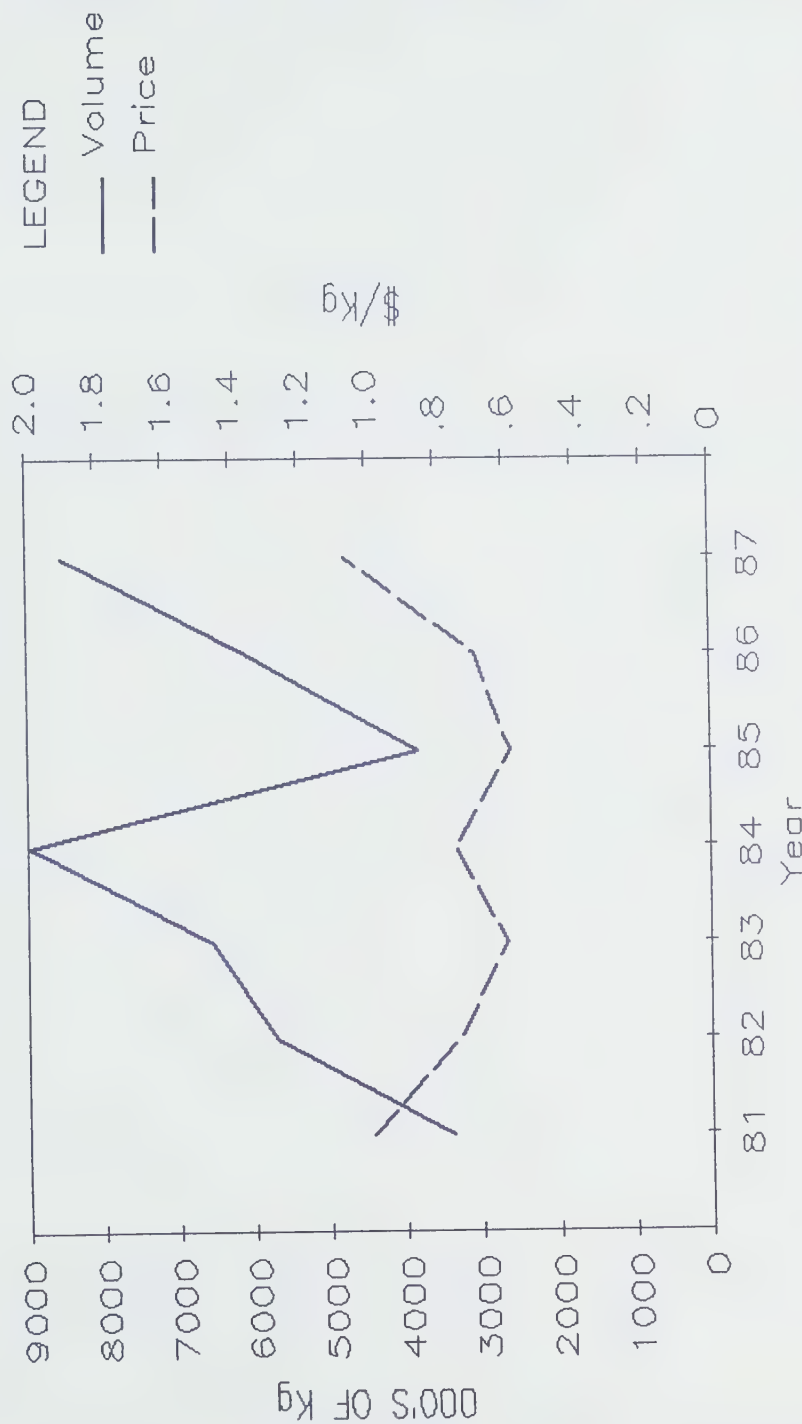
Source: Information and Statistics Section, MNDM

ONTARIO LEAD PRODUCTION

AND

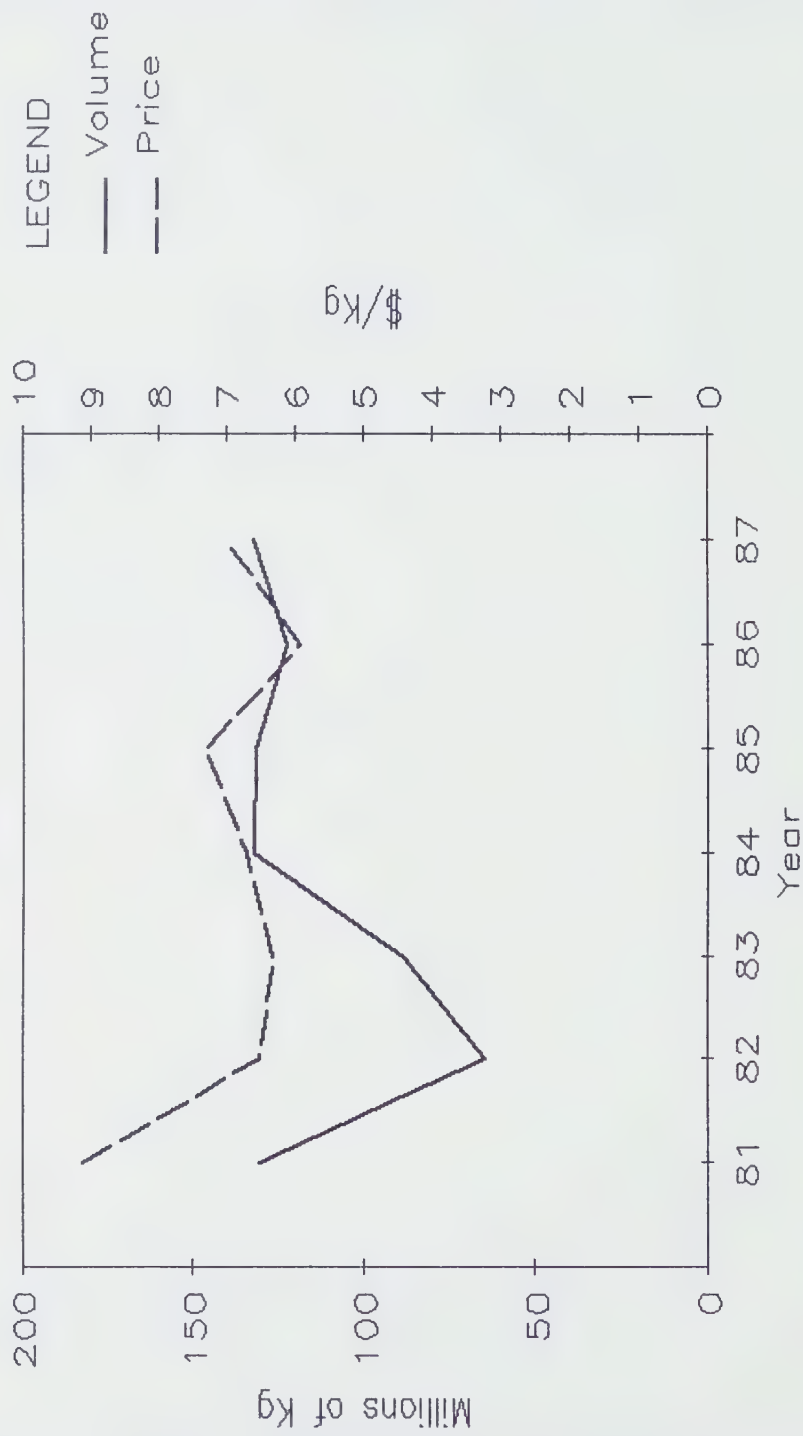
LEAD PRICE IN CANADIAN DOLLARS

1981 - 1987p



Source: Information and Statistics Section, MNDM

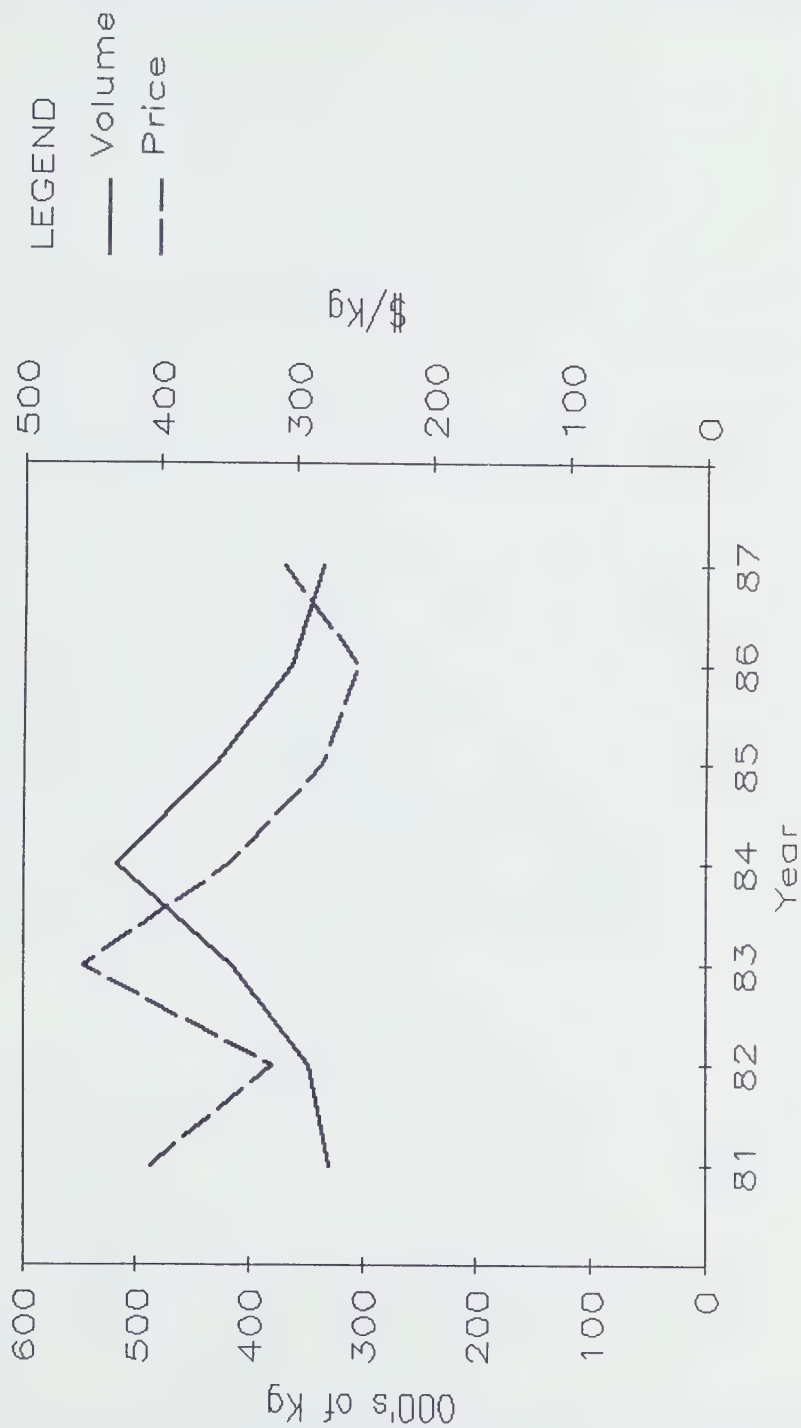
ONTARIO NICKEL PRODUCTION AND NICKEL PRICE IN CANADIAN DOLLARS 1981 - 1987p



Source: Information and Statistics Section, MNM

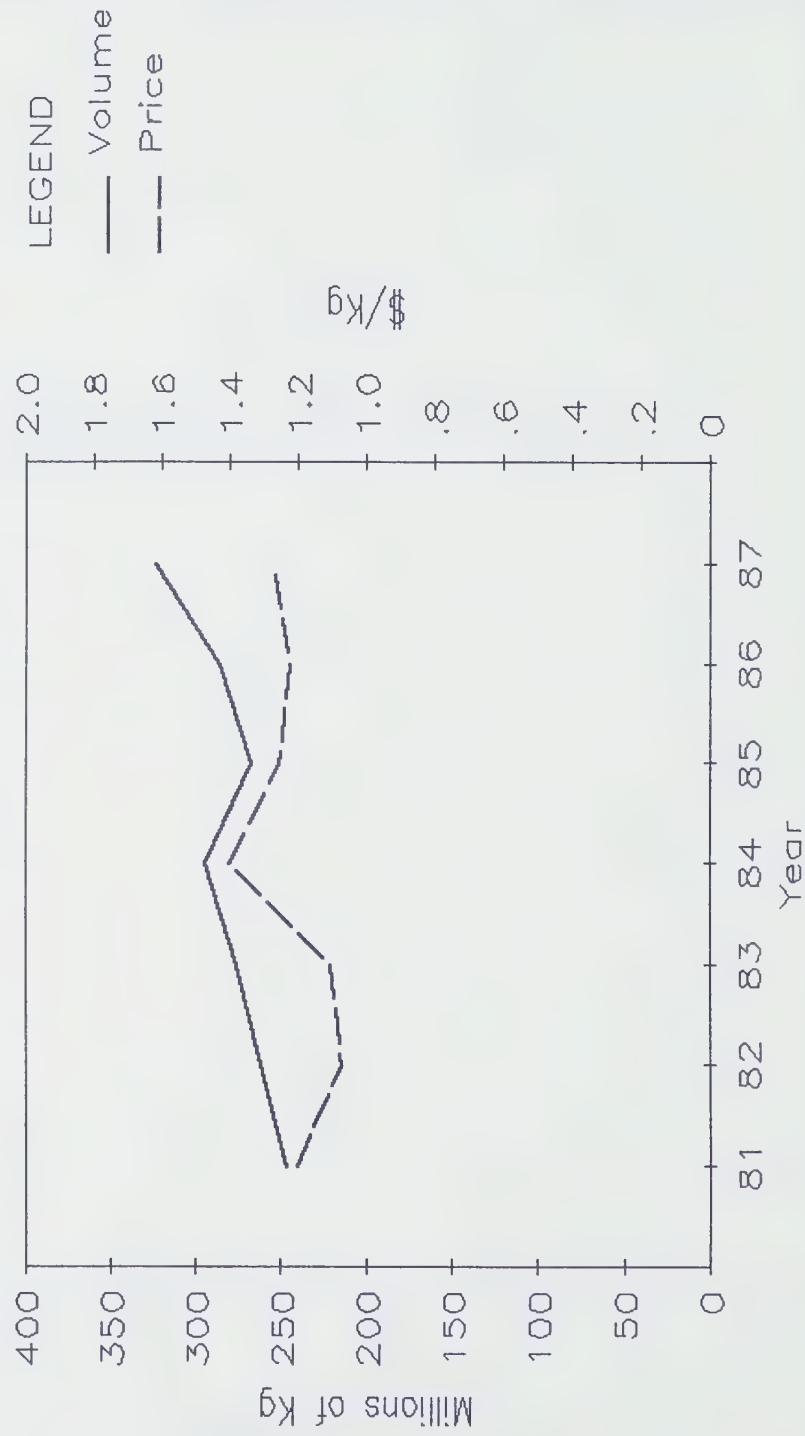
ONTARIO SILVER PRODUCTION AND

SILVER PRICE IN CANADIAN DOLLARS
1981 - 1987p

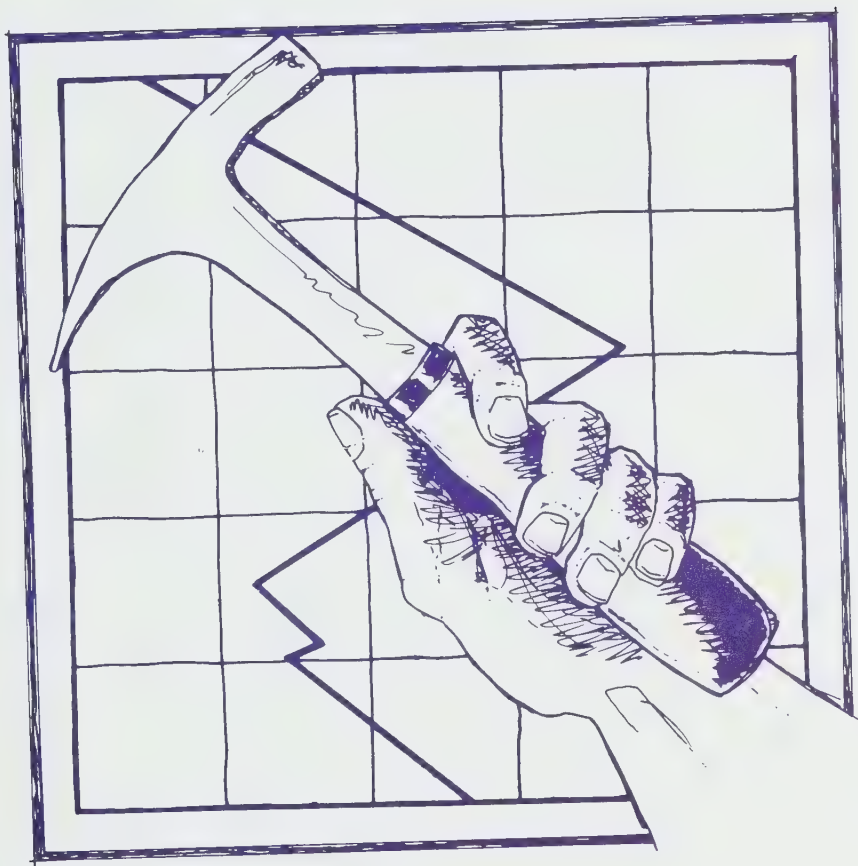


Source: Information and Statistics Section, MNM

ONTARIO ZINC PRODUCTION AND ZINC PRICE IN CANADIAN DOLLARS 1981 - 1987p



Source: Information and Statistics Section, MNDM



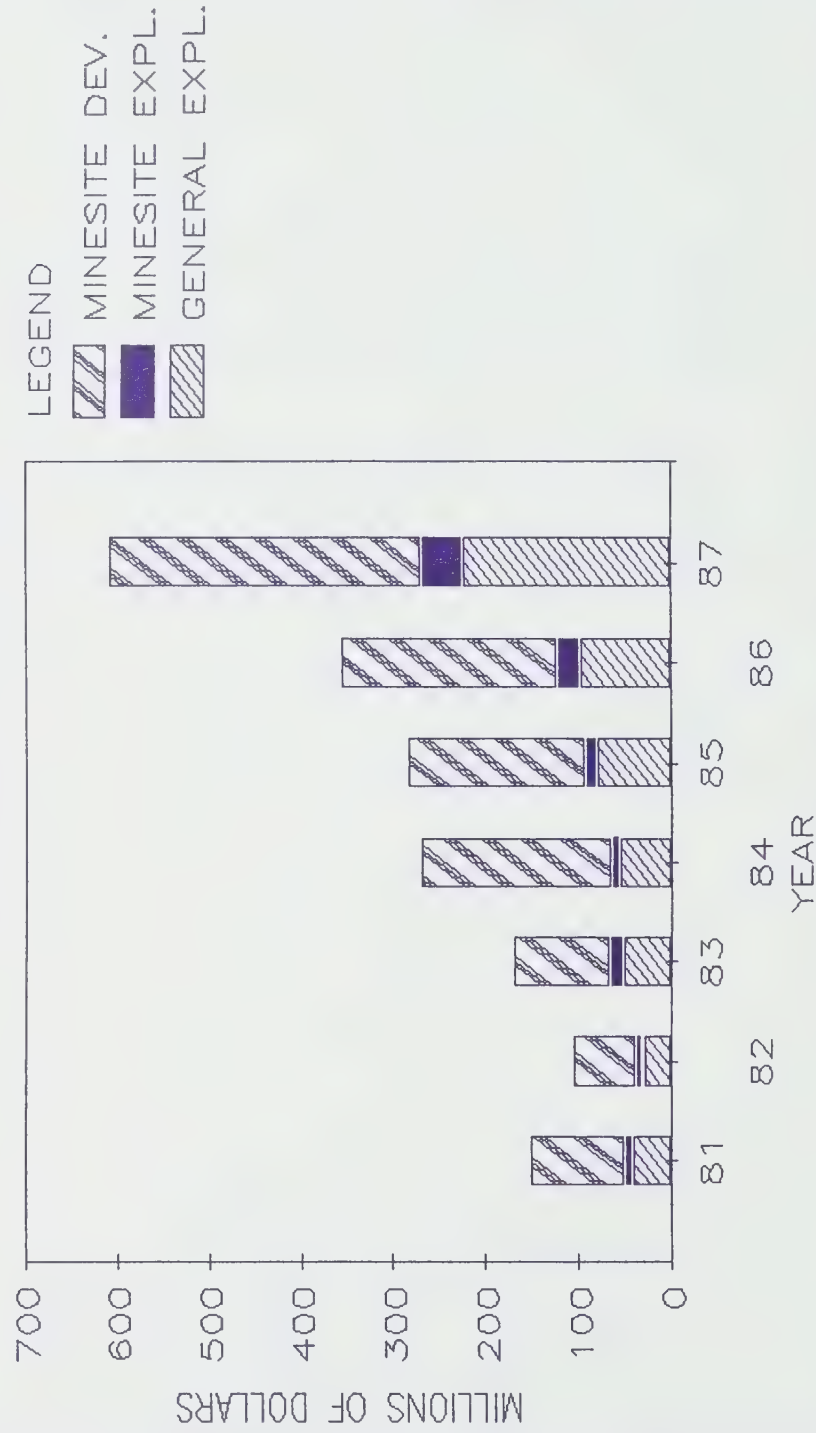
TOTAL EXPLORATION AND DEVELOPMENT
EXPENDITURES IN ONTARIO
(IN CURRENT DOLLARS)
1981 - 1987

=====

	TOTAL	GENERAL EXPLORATION	MINESITE EXPLORATION	MINESITE DEVELOPMENT
	(\$)	(\$)	(\$)	(\$)
1987	610 021 553	224 723 664	43 237 175	342 060 714
1986	357 913 442	99 479 944	24 385 587	234 047 911
1985	284 514 464	81 379 194	11 917 683	191 217 587
1984	270 282 158	55 872 952	9 312 938	205 096 268
1983	171 384 988	52 434 213	14 692 989	104 257 786
1982	106 390 043	31 227 498	7 141 352	68 021 193
1981	152 010 941	41 923 880	9 191 238	100 895 823

Source: Information and Statistics Section, MNDM

TOTAL EXPLORATION AND DEVELOPMENT EXPENDITURES IN ONTARIO 1981 - 1987 (IN CURRENT DOLLARS)



Source: Information and Statistics Section, MNDM

TOTAL EXPLORATION AND DEVELOPMENT
EXPENDITURES IN ONTARIO
1987

=====

	TOTAL	GENERAL EXPLORATION	MINESITE EXPLORATION	MINESITE DEVELOPMENT
	(\$)	(\$)	(\$)	(\$)
Diamond Drilling	164 322 248	116 308 723	23 299 239	24 714 286
Geochemical	9 871 079	8 815 346	1 055 733	
Geology	25 428 962	16 054 198	9 374 764	
Geophysical	12 756 046	12 606 571	149 475	
Airborne Geo.	2 056 011	2 044 965	11 046	
Rock Work	40 612 447	39 170 409	1 442 038	
Shafts	2 804 480			2 804 480
Drifts,Crosscuts	164 931 022			164 931 022
Raises,Declines	74 444 495			74 444 495
Stripping	9 129 630			9 129 630
Other Exp. & Dev.	103 665 133	29 723 452	7 904 880	66 036 801
Total Expenditure	610 021 553	224 723 664	43 237 175	342 060 714

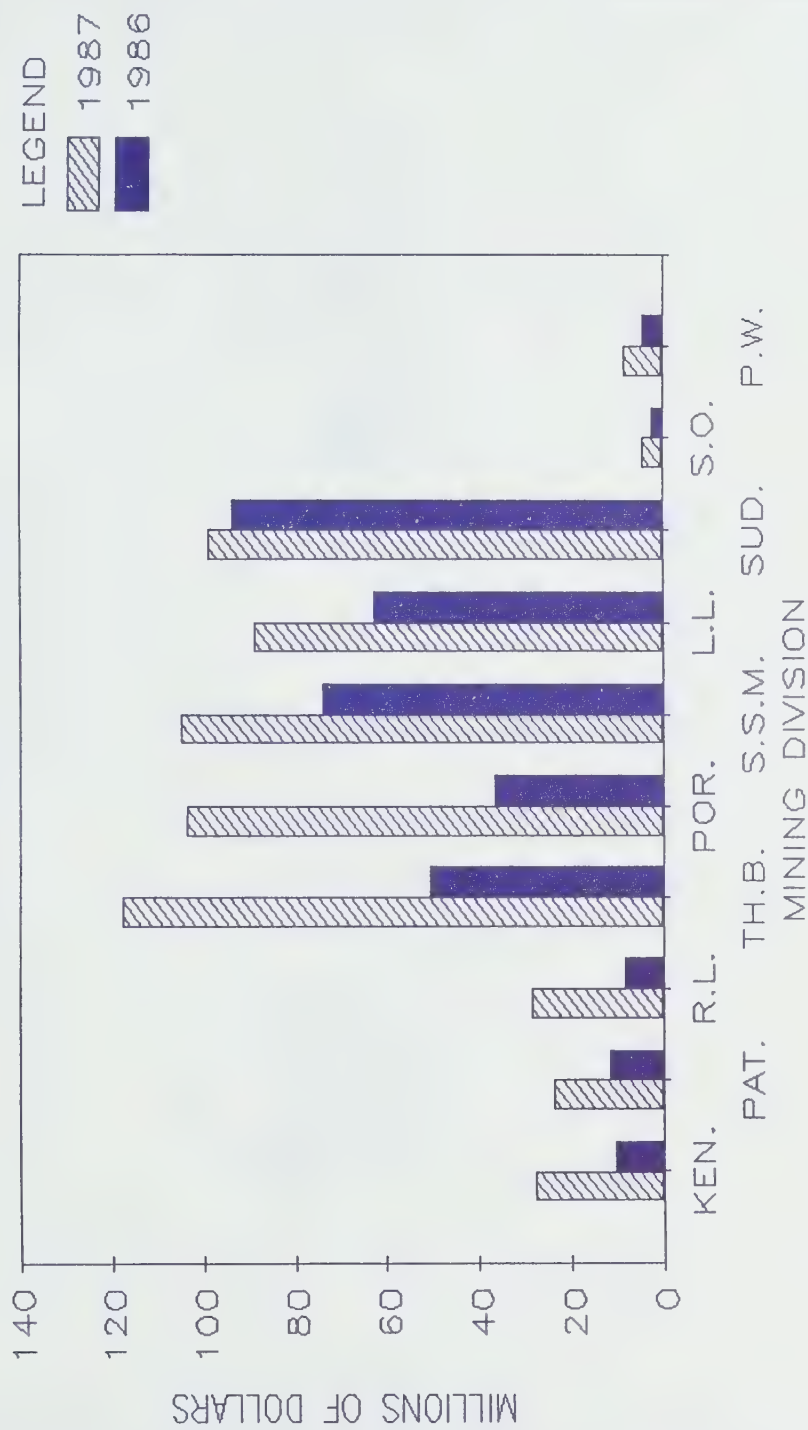
Source: Information and Statistics Section, MNDM

TOTAL EXPLORATION AND DEVELOPMENT
EXPENDITURES IN ONTARIO
1987 VS 1986

	1987	1986	% Change
	-----	-----	-----
	(\$)	(\$)	
Diamond Drilling	164 322 248	69 692 311	135.7
Geochemical	9 871 079	5 545 070	78.0
Geology	25 428 962	10 874 716	133.8
Geophysical	12 756 046	4 849 341	163.0
Airborne Geo.	2 056 011	1 001 621	105.2
Rock Work	40 612 447	17 672 806	129.8
Shafts	2 804 480	9 511 392	-70.5
Drifts, Crosscuts	164 931 022	125 078 069	31.9
Raises, Declines	74 444 495	30 896 845	140.9
Stripping	9 129 630	11 826 819	-22.8
Other Exp. & Dev.	103 665 133	70 964 452	46.1
Total Expenditure	610 021 553	357 913 442	70.4

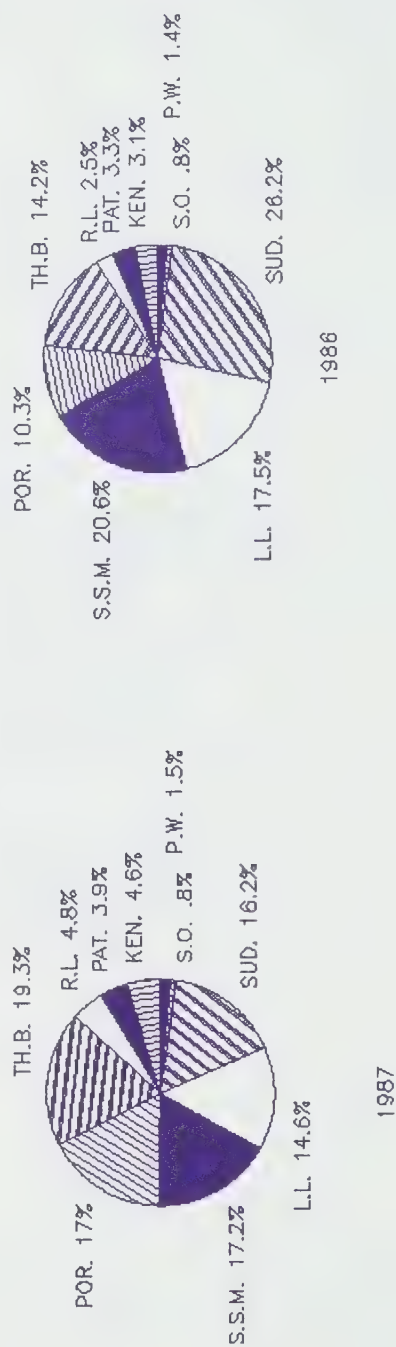
Source: Information and Statistics Section, MNDM

TOTAL EXPLORATION AND DEVELOPMENT EXPENDITURES IN ONTARIO 1987 VS 1986 (BY MINING DIVISION)



Source: Information and Statistics Section, MNM

TOTAL EXPLORATION AND DEVELOPMENT EXPENDITURES IN ONTARIO 1987 VS 1988 (BY MINING DIVISION)



Source: Information and Statistics Section, MNM

GENERAL EXPLORATION EXPENDITURES
IN NORTHWEST REGION

1987

=====

	KENORA ----- (\$)	PATRICIA ----- (\$)	RED LAKE ----- (\$)	THUNDER BAY ----- (\$)	TOTAL ----- (\$)
Diamond Drilling	10 022 414	8 028 238	10 719 697	22 382 377	51 152 726
Geochemical	405 321	415 809	573 953	1 325 956	2 721 039
Geology	1 021 498	945 738	1 984 998	3 609 021	7 561 255
Geophysical	1 022 707	1 054 466	1 751 272	2 152 547	5 980 992
Airborne Geo.	85 792	100 352	35 067	264 484	485 695
Rock Work	8 331 913	39 086	4 383 829	2 870 280	15 625 108
Other	2 895 065	1 107 592	4 396 790	6 797 762	15 197 209
Total Expenditure	23 784 710	11 691 281	23 845 606	39 402 427	98 724 024

Source: Information and Statistics Section, MNDM

GENERAL EXPLORATION EXPENDITURES
IN NORTHEAST REGION
1987

=====

	LARDER LAKE ----- (\\$)	PORCUPINE ----- (\\$)	S. S. MARIE ----- (\\$)	SUDBURY ----- (\\$)	TOTAL ----- (\\$)
Diamond Drilling	25 990 098	19 877 259	8 000 367	7 012 826	60 880 550
Geochemical	3 694 376	1 169 516	245 739	396 992	5 506 623
Geology	1 827 513	2 027 614	619 750	1 348 278	5 823 155
Geophysical	2 590 098	1 906 453	547 557	873 388	5 917 496
Airborne Geo.	301 170	284 483	5 357	772 014	1 363 024
Rock Work	5 215 827	17 239 624	596 718	107 547	23 159 716
Other	5 056 937	4 193 264	1 426 654	864 274	11 541 129
Total Expenditure	44 676 019	46 698 213	11 442 142	11 375 319	114 191 693

Source: Information and Statistics Section, MNDM

MINESITE EXPLORATION EXPENDITURES
IN NORTHWEST REGION

1987

=====

	KENORA	PATRICIA	RED LAKE	THUNDER BAY	TOTAL
	-----	-----	-----	-----	-----
	(\$)	(\$)	(\$)	(\$)	(\$)
Diamond Drilling	350 691	3 490 619	0	7 120 501	10 961 811
Geochemical	3 984	479 709	27 334	192 334	703 361
Geology	628	318 418	12 939	4 314 368	4 646 353
Geophysical	84 018	51 657	0	13 800	149 475
Airborne Geo.	0	0	0	1 046	1 046
Rock Work	0	53 645	0	12 307	65 952
Other	294 811	460 803	410 776	4 842 560	6 008 950
Total Expenditure	734 132	4 854 851	451 049	16 496 916	22 536 948

Source: Information and Statistics Section, MNDM

MINESITE EXPLORATION EXPENDITURES
IN NORTHEAST REGION
1987

=====

	LARDER LAKE ----- (\\$)	PORCUPINE ----- (\\$)	S. S. MARIE ----- (\\$)	SUDBURY ----- (\\$)	TOTAL ----- (\\$)
Diamond Drilling	4 377 665	863 627	5 521 000	1 253 151	12 015 443
Geochemical	0	0	340 000	0	340 000
Geology	51 411	0	4 677 000	0	4 728 411
Geophysical	0	0	0	0	0
Airborne Geo.	10 000	0	0	0	10 000
Rock Work	822 835	0	86 584	466 667	1 376 086
Other	34 000	0	1 229 000	610 670	1 873 670
Total Expenditure	5 295 911	863 627	11 853 584	2 330 488	20 343 610

Source: Information and Statistics Section, MNDM

MINESITE DEVELOPMENT EXPENDITURES
IN NORTHWEST REGION

1987

=====

	KENORA ----- (\$)	PATRICIA ----- (\$)	RED LAKE ----- (\$)	THUNDER BAY ----- (\$)	TOTAL ----- (\$)
Diamond Drilling	1 094 738	1 238 377	876 933	1 812 825	5 022 873
Shaft	0	0	0	0	0
Drifts and Crosscuts	1 690 318	4 303 990	2 760 616	34 307 378	43 062 302
Raises and Declines	781 100	1 338 570	533 479	8 015 707	10 668 856
Stripping	0	0	0	0	0
Other	0	748 524	165 570	17 598 997	18 513 091
Total Expenditure	3 566 156	7 629 461	4 336 598	61 734 907	77 267 122

Source: Information and Statistics Section, MNDM

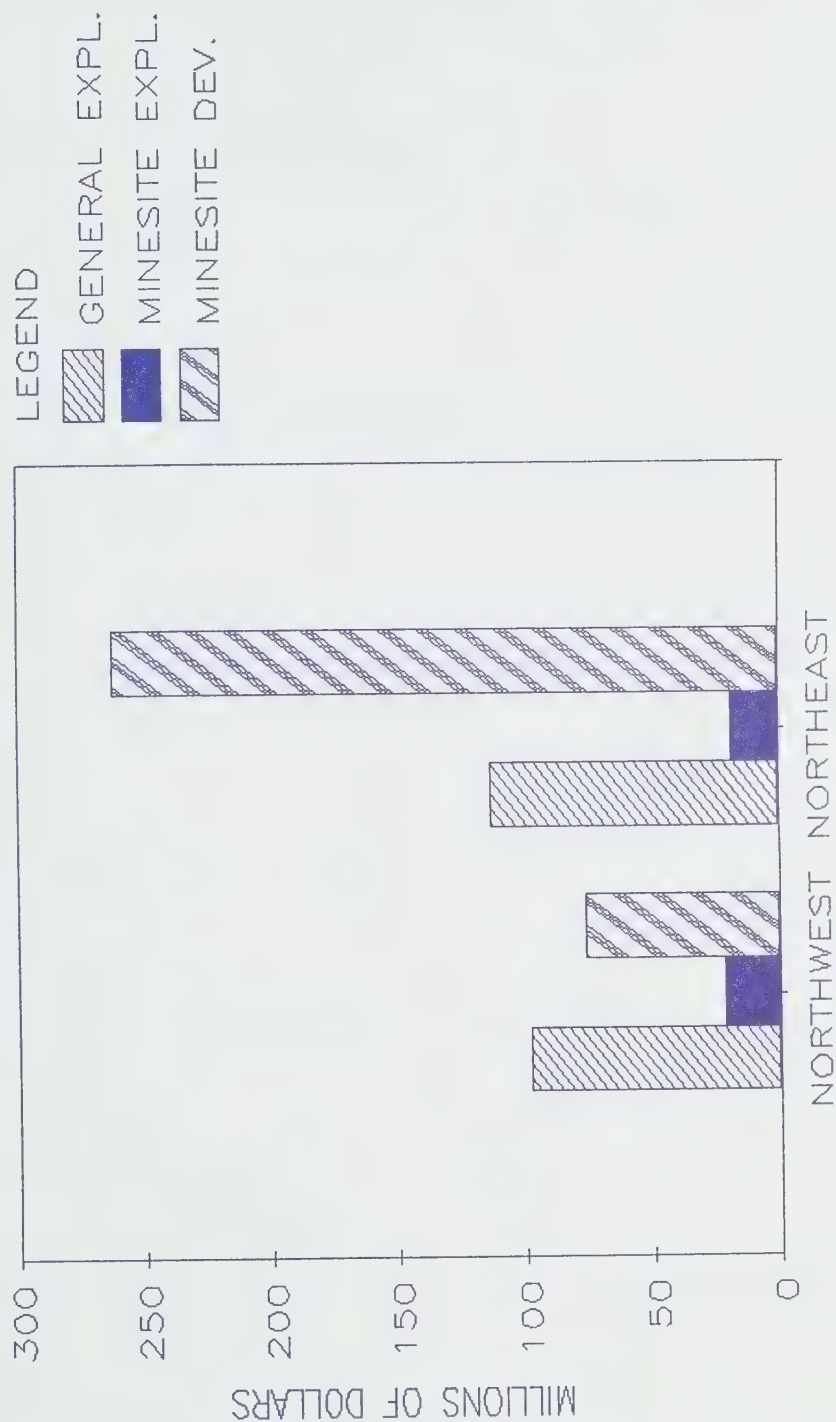
MINESITE DEVELOPMENT EXPENDITURES
IN NORTHEAST REGION
1987

=====

	LARDER LAKE	PORCUPINE	S. S. MARIE	SUDBURY	TOTAL
	(\\$)	(\\$)	(\\$)	(\\$)	(\\$)
Diamond Drilling	7 979 888	4 117 631	3 239 045	3 583 794	18 920 358
Shaft	1 692 702	999 966	0	111 812	2 804 480
Drifts and Crosscuts	10 695 425	26 310 480	51 276 393	33 586 422	121 868 720
Raises and Declines	10 556 520	14 458 586	25 993 454	11 942 079	62 950 639
Stripping	4 286 364	10 000	0	4 743 443	9 039 807
Other	4 221 756	11 007 627	769 453	31 145 559	47 144 395
Total Expenditure	39 432 655	56 904 290	81 278 345	85 113 109	262 728 399

Source: Information and Statistics Section, MNDM

EXPLORATION AND DEVELOPMENT EXPENDITURES IN NORTHWEST AND NORTHEAST REGIONS 1987



Source: Information and Statistics Section, MNDM

GENERAL EXPLORATION EXPENDITURES
IN SOUTHERN REGION AND UNDEFINED REGION
1987

=====

	SOUTHERN ONTARIO	UNDEFINED REGION	TOTAL
	($\$$)	($\$$)	($\$$)
Diamond Drilling	1 449 868	2 825 579	4 275 447
Geochemical	132 018	455 666	587 684
Geology	386 374	2 283 414	2 669 788
Geophysical	138 916	569 167	708 083
Airborne Geo.	56 100	140 146	196 246
Rock Work	237 273	148 312	385 585
Other	260 744	2 724 370	2 985 114
Total Expenditure	2 661 293	9 146 654	11 807 947

Source: Information and Statistics Section, MNDM

MINESITE EXPLORATION EXPENDITURES
IN SOUTHERN REGION
1987

=====

	SOUTHERN ONTARIO ----- (\$)
Diamond Drilling	321 985
Geochemical	12 372
Geology	0
Geophysical	0
Airborne Geo.	0
Rock Work	0
Other	22 260
 Total Expenditure	 356 617

Source: Information and Statistics Section, MNNDM

MINESITE DEVELOPMENT EXPENDITURES
IN SOUTHERN REGION
1987

=====

	SOUTHERN ONTARIO ----- (\$)
Diamond Drilling	771 055
Shaft	0
Drifts and Crosscuts	0
Raises and Declines	825 000
Stripping	89 823
Other	379 315
Total Expenditure	2 065 193

Source: Information and Statistics Section, MNDM

GENERAL EXPLORATION EXPENDITURES
IN ONTARIO
BY METAL OR MINERAL SOUGHT
1987 VS 1986
=====

	1987	1986	% Change
	-----	-----	-----
	(\$)	(\$)	
Gold Only	175 276 003	77 871 620	125.1
Gold & Other Metals (incl. Silver)	7 110 790	2 672 755	166.0
Base Metals	22 213 847	11 885 830	86.9
Platinum Group Metals	14 310 929	3 632 968	293.9
Uranium	0	10 418	-100.0
Industrial Minerals	1 751 899	1 720 957	1.8
Misc. Metal/Ind. Min.	427 066	125 294	240.9
Various	3 633 130	1 560 102	132.9
Total Expenditure	224 723 664	99 479 944	125.9

Source: Information and Statistics Section, MNDM

MINESITE EXPLORATION EXPENDITURES
IN ONTARIO
BY METAL OR MINERAL SOUGHT
1987 VS 1986

	1987	1986	% Change
	-----	-----	-----
	(\$)	(\$)	
Gold Only	26 413 680	15 001 593	76.1
Gold & Other Metals (incl. Silver)	3 636 639	3 337 494	9.0
Base Metals	7 843 164	6 000 260	30.7
Platinum Group Metals	4 987 075	0	0.0
Industrial Minerals	356 617	46 240	671.2
Total Expenditure	43 237 175	24 385 587	77.3

Source: Information and Statistics Section, MNMNM

MINESITE DEVELOPMENT EXPENDITURES
 IN ONTARIO
 BY METAL OR MINERAL SOUGHT
 1987 VS 1986
 =====

	1987	1986	% Change
	----	----	-----
	(\$)	(\$)	
Gold Only	134 907 208	65 827 024	104.9
Gold & Other Metals (incl. Silver)	5 802 093	3 878 917	49.6
Base Metals	115 500 855	89 572 705	28.9
Uranium, Yttrium	73 125 677	61 846 595	18.2
Iron	10 603 515	12 366 486	-14.3
Industrial Minerals	2 121 366	556 184	281.4
Total Expenditure	342 060 714	234 047 911	46.1

Source: Information and Statistics Section, MNMD

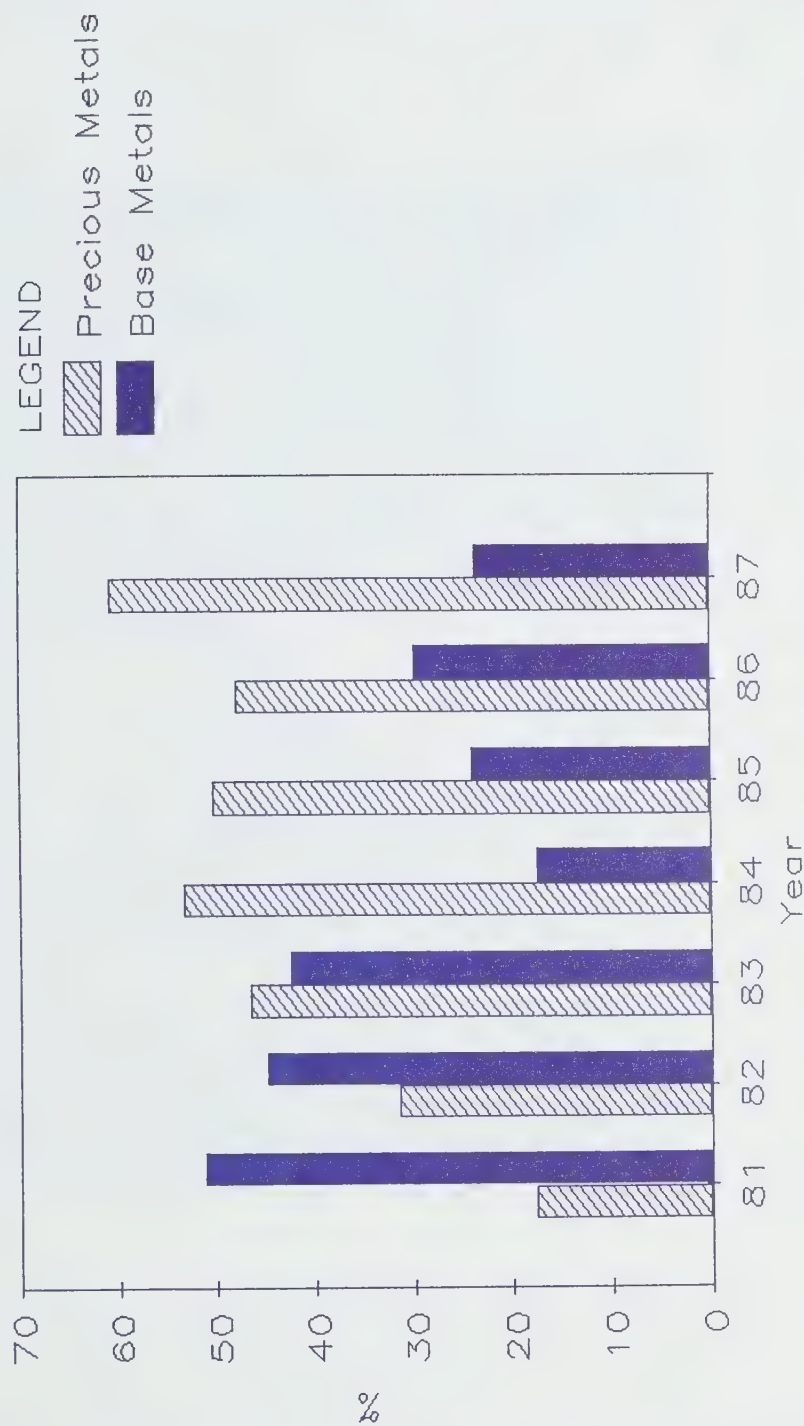
EXPLORATION AND DEVELOPMENT EXPENDITURES
IN ONTARIO
PRECIOUS METALS AND BASE METALS
(IN CURRENT DOLLARS)

1981 - 1987

YEAR	PRECIOUS METALS		BASE METALS		TOTAL EXPENDITURES (\$)
	(\$)	AS % OF TOTAL EXPENDITURES	(\$)	AS % OF TOTAL EXPENDITURES	
1987	371 180 106	60.8	145 557 866	23.9	610 021 553
1986	172 222 371	48.1	107 458 795	30.0	357 913 442
1985	143 752 592	50.5	68 544 902	24.1	284 514 464
1984	144 672 134	53.5	47 956 717	17.7	270 282 158
1983	80 300 473	46.8	73 115 384	42.7	171 384 988
1982	33 607 869	31.6	47 817 766	45.0	106 390 043
1981	27 118 748	17.8	78 167 026	51.4	152 010 941

Source: Information and Statistics Section, MNM

EXPLORATION AND DEVELOPMENT EXPENDITURES IN ONTARIO PRECIOUS METALS AND BASE METALS AS % OF TOTAL EXPENDITURES



Source: Information and Statistics Section, MNM



CLAIMS REPORT
FROM
ONTARIO MINING RECORDERS' OFFICES
RECORDED BY MONTH '88

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Total Jan. - Oct.
Northwest Region											

Kenora	290	763	213	261	269	244	216	380	260	336	3 232
Patricia	83	13	492	25	370	260	123	278	224	301	2 169
Red Lake	218	493	236	211	138	33	115	366	340	80	2 230
Thunder Bay	318	1 266	820	1 142	880	693	2 049	443	668	1 311	9 590
Total	909	2 535	1 761	1 639	1 657	1 230	2 503	1 467	1 492	2 028	17 221
Northeast Region											

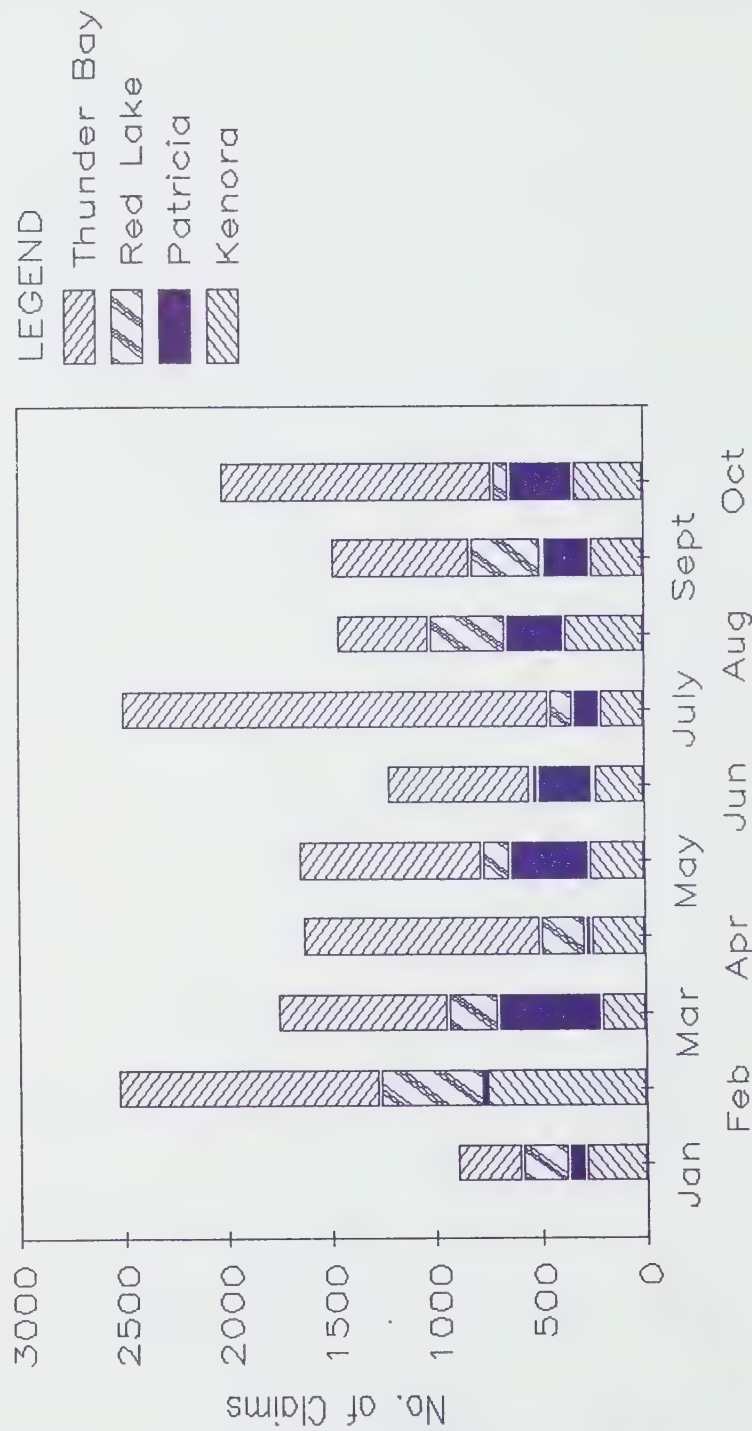
Larder Lake	496	311	410	270	162	495	338	377	257	269	3 385
Porcupine	361	777	951	1 634	712	399	134	196	316	215	5 695
Sault Ste. Marie	221	849	588	438	485	1 297	1 021	686	404	353	6 342
Sudbury	83	8	36	132	166	111	132	43	32	22	765
Total	1 161	1 945	1 985	2 474	1 525	2 302	1 625	1 302	1 009	859	16 187
Southern Region											

Southern Ontario	82	53	113	144	17	84	149	93	47	55	837
Total	82	53	113	144	17	84	149	93	47	55	837
TOTAL ALL REGIONS:	2 152	4 533	3 859	4 257	3 199	3 616	4 277	2 862	2 548	2 942	34 245

Source: Information and Statistics Section, MNDM

MINING CLAIMS RECORDED IN NORTHWEST REGION

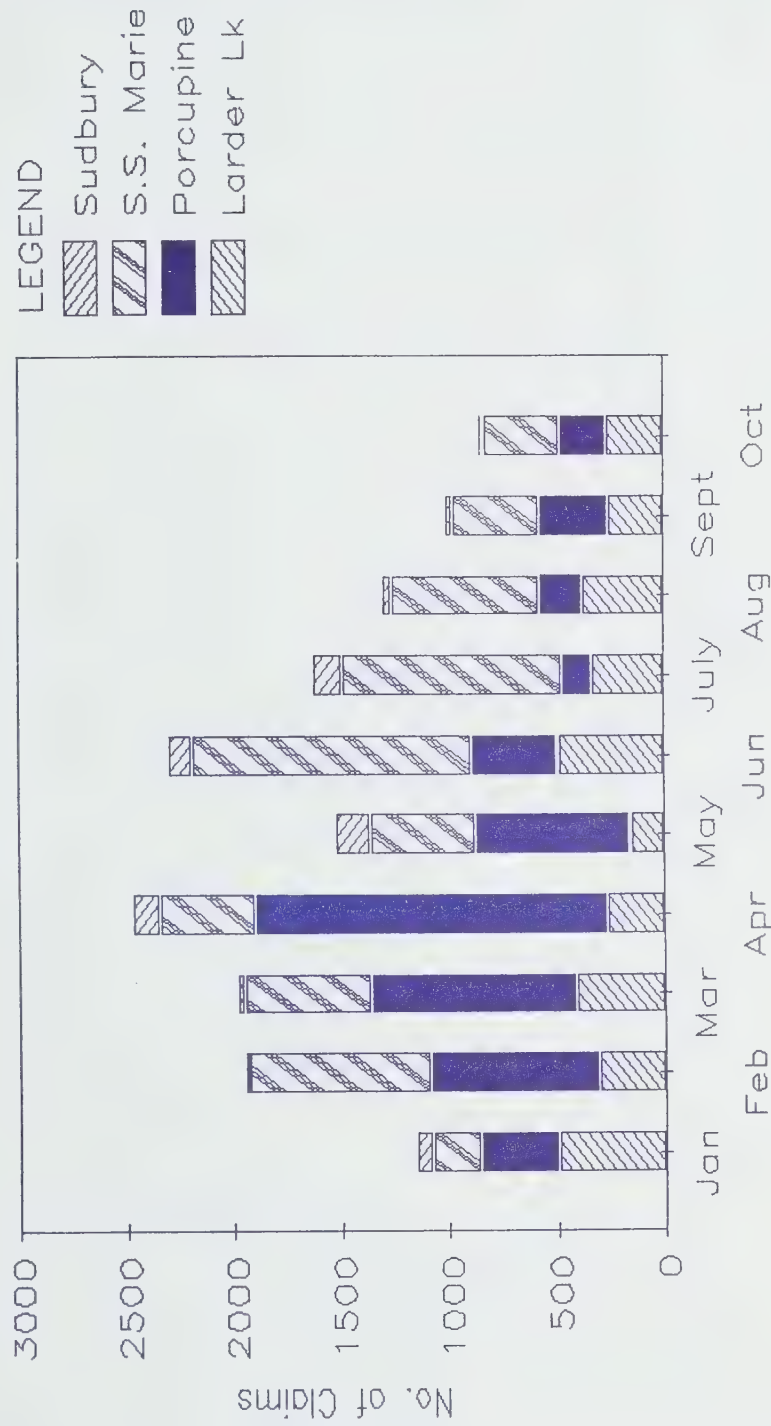
BY MONTH
JAN.—OCT. 1988



Source: Information and Statistics Section, MNM

MINING CLAIMS RECORDED IN NORTHEAST REGION

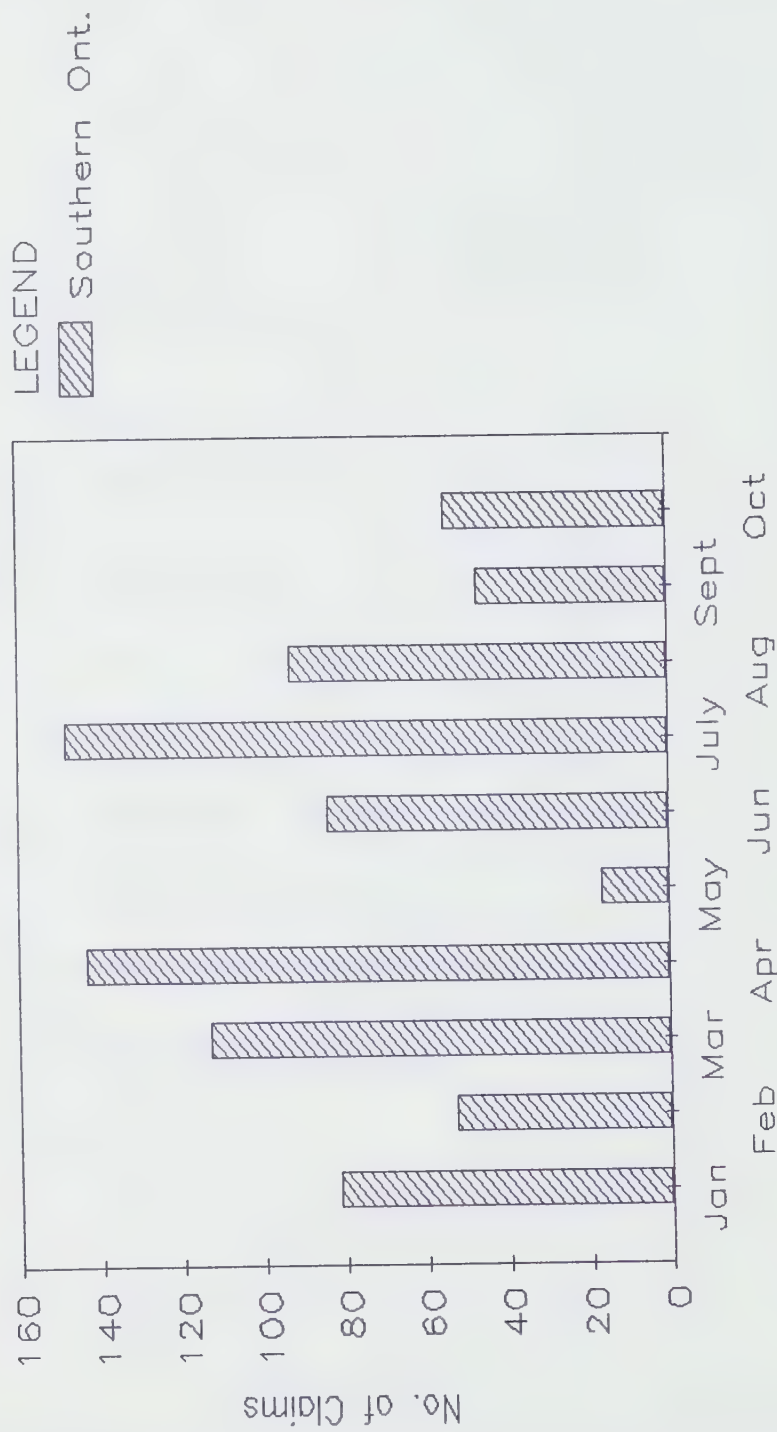
BY MONTH
JAN.—OCT. 1988



Source: Information and Statistics Section, MNDM

MINING CLAIMS RECORDED IN SOUTHERN REGION

BY MONTH
JAN.—OCT. 1988



Source: Information and Statistics Section, MNDM

CLAIMS REPORT
FROM
ONTARIO MINING RECORDERS' OFFICES
CANCELLED BY MONTH '88

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Total Jan. - Oct.
Northwest Region											

Kenora	300	89	204	365	194	498	101	170	294	93	2 308
Patricia	70	82	128	411	461	267	263	60	336	190	2 268
Red Lake	13	374	12	271	7	421	420	60	38	724	2 340
Thunder Bay	496	52	1 113	945	416	1 397	708	1 213	1 250	982	8 572
Total	879	597	1 457	1 992	1 078	2 583	1 492	1 503	1 918	1 989	15 488
Northeast Region											

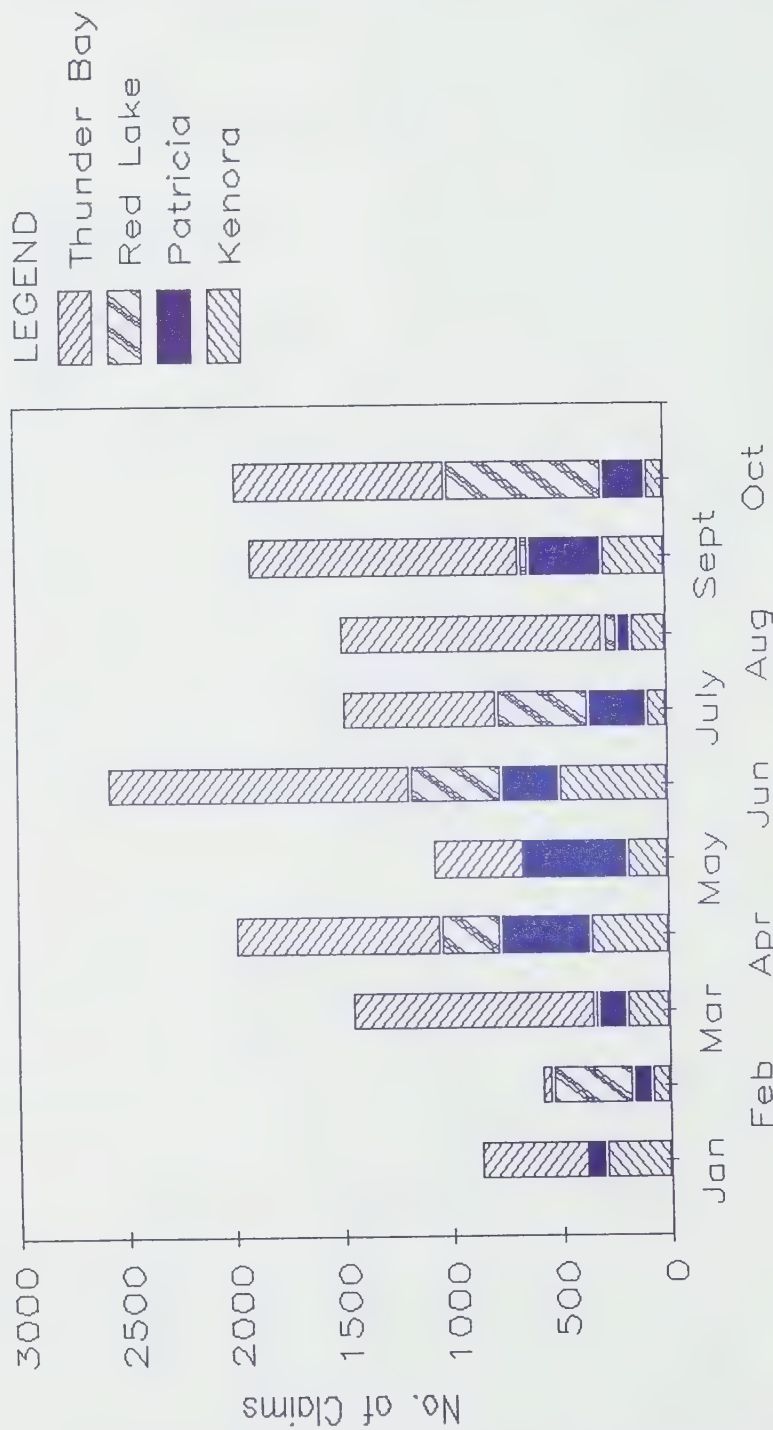
Larder Lake	236	446	165	472	73	164	553	587	458	444	3 598
Porcupine	184	633	162	1 072	419	588	922	959	539	755	6 233
Sault Ste. Marie	90	91	92	139	311	166	164	57	77	52	1 239
Sudbury	65	302	59	20	450	0	2	642	69	9	1 618
Total	575	1 472	478	1 703	1 253	918	1 641	2 245	1 143	1 260	12 688
Southern Region											

Southern Ontario	13	22	3	92	16	36	19	63	41	5	310
Total	13	22	3	92	16	36	19	63	41	5	310
TOTAL ALL REGIONS:	1 467	2 091	1 938	3 787	2 347	3 537	3 152	3 811	3 102	3 254	28 486

Source: Information and Statistics Section, MNDM

MINING CLAIMS CANCELLED IN NORTHWEST REGION

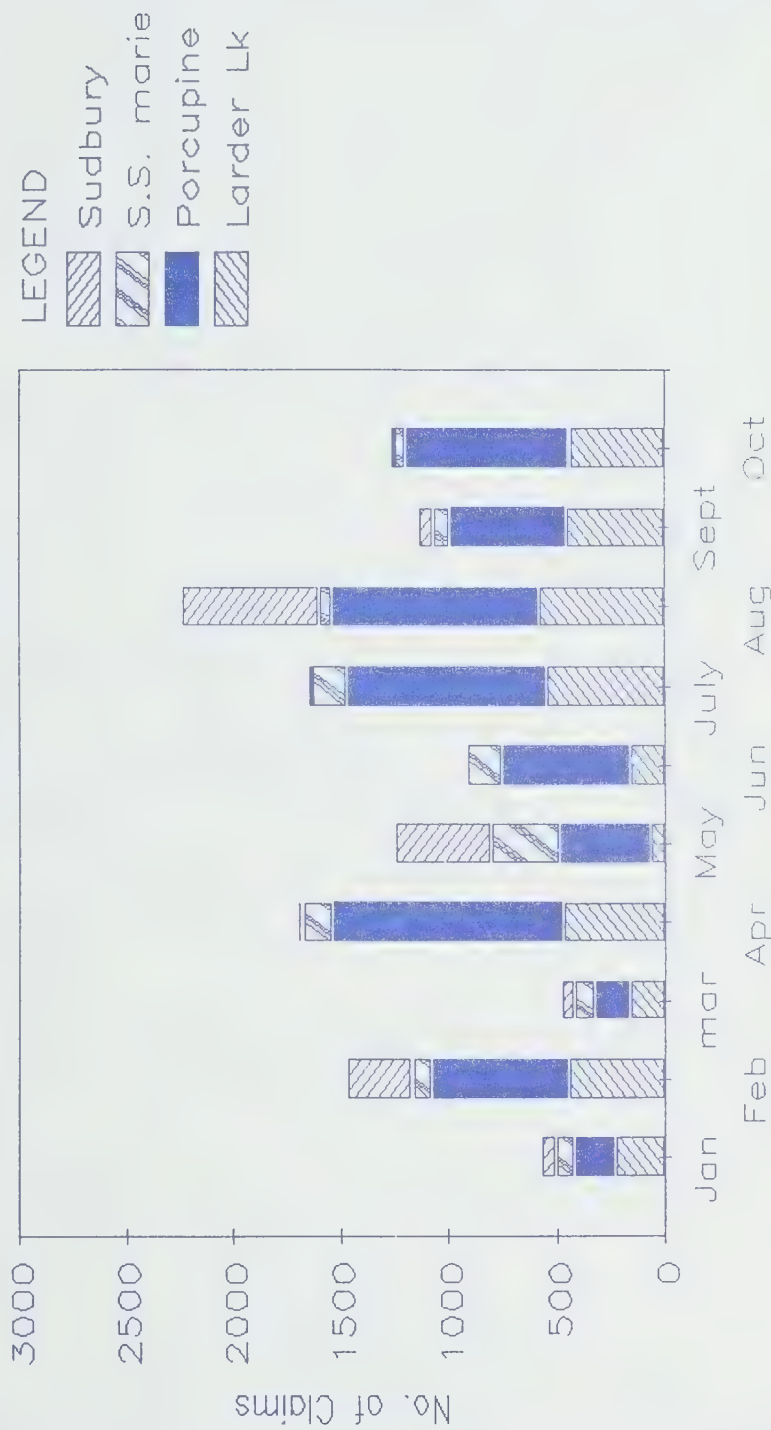
BY MONTH
JAN.—OCT. 1988



Source: Information and Statistics Section, MNM

MINING CLAIMS CANCELLED IN NORTHEAST REGION

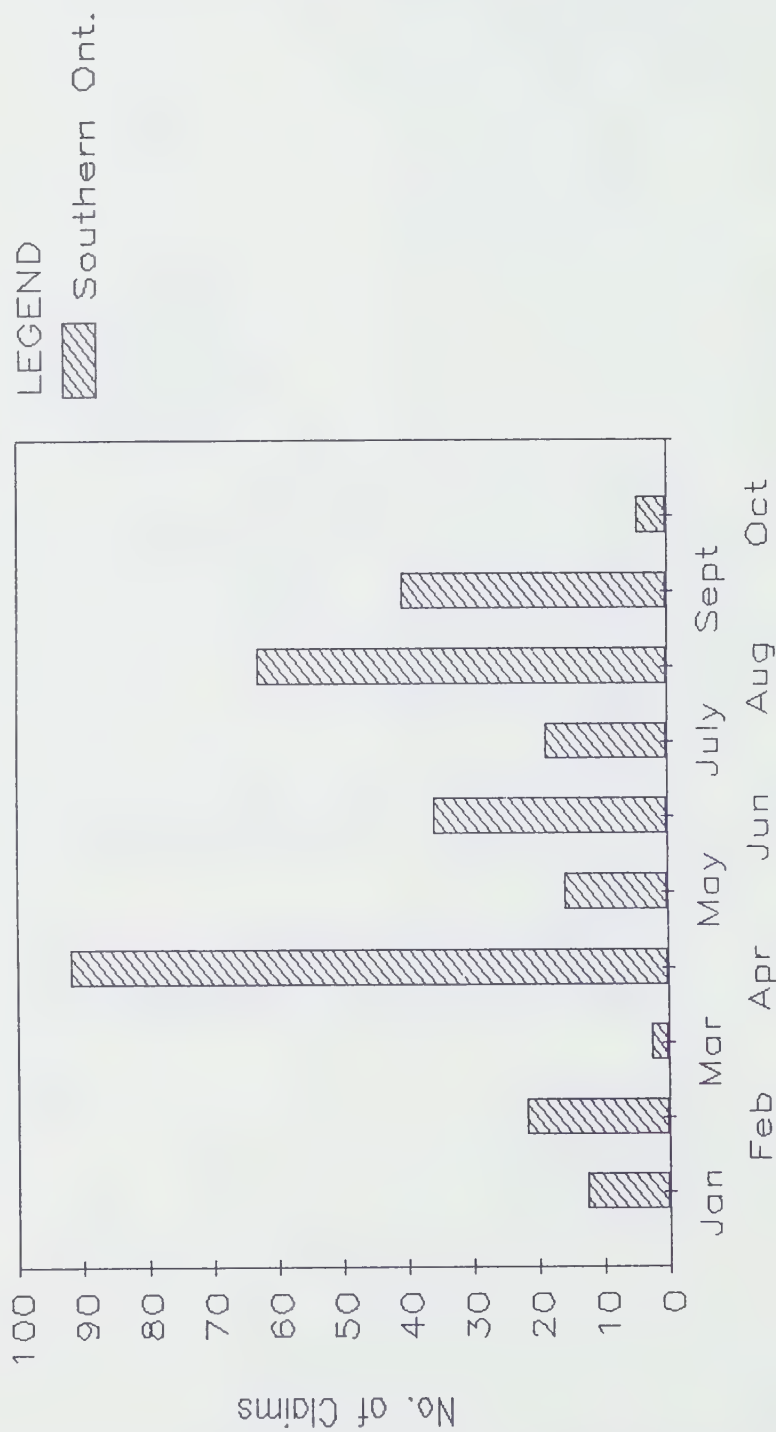
BY MONTH
JAN.—OCT. 1988



Source: Information and Statistics Section, MNM

MINING CLAIMS CANCELLED IN SOUTHERN REGION

BY MONTH
JAN.—OCT. 1988



Source: Information and Statistics Section, MNDM

CLAIMS REPORT
FROM
ONTARIO MINING RECORDERS' OFFICES
DIFFERENCE BETWEEN RECORDED AND CANCELLED BY MONTH '88

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Northwest Region										

Kenora	-10	674	9	-104	75	-254	115	210	-34	243
Patricia	13	-69	364	-386	-91	-7	-140	218	-112	111
Red Lake	205	119	224	-60	131	-388	-305	306	302	-644
Thunder Bay	-178	1 214	-293	197	464	-704	1 341	-770	-582	329
Total	30	1 938	304	-353	579	- 1 353	1 011	-36	-426	39
Northeast Region										

Larder Lake	260	-135	245	-202	89	331	-215	-210	-201	-175
Porcupine	177	144	789	562	293	-189	-788	-763	-223	-540
Sault Ste. Marie	131	758	496	299	174	1 131	857	629	327	301
Sudbury	18	-294	-23	112	-284	111	130	-599	-37	13
Total	586	473	1 507	771	272	1 384	-16	-943	-134	-401
Southern Region										

Southern Ontario	69	31	110	52	1	48	130	30	6	50
Total	69	31	110	52	1	48	130	30	6	50
TOTAL ALL REGIONS:	685	2 442	1 921	470	852	79	1 125	-949	-554	-312

Source: Information and Statistics Section, MNDM

CLAIMS AND WORKDAYS REPORT
FROM
ONTARIO MINING RECORDERS' OFFICES
CUMULATIVE

	Oct '88	Oct '87	% change	Oct '88	Oct '87	% change	Oct '88	Oct '87	Oct '88	Oct '87	% change
	claims	claims		claims	claims		recorded minus	man days			
	recorded	recorded		cancelled	cancelled		cancelled	worked			
Northwest Region											

Kenora	3 232	4 893	-33.95	2 308	2 277	1.36	924	2 616	387 003	260 681	48.46
Patricia	2 169	5 254	-58.72	2 268	1 805	25.65	-99	3 449	514 736	613 519	-16.10
Red lake	2 230	4 009	-44.38	2 340	1 404	66.67	-110	2 605	414 002	190 857	116.92
Thunder Bay	9 590	13 921	-31.11	8 572	7 098	20.77	1 018	6 823	1 023 218	883 574	15.80
Total	17 221	28 077	-38.67	15 488	12 584	23.08	1 733	15 493	2 338 959	948 631	20.03
Northeast Region											

Larder Lake	3 385	5 615	-39.72	3 598	3 488	3.15	-213	2 127	559 640	485 559	15.26
Porcupine	5 695	7 841	-27.37	6 233	3 872	60.98	-538	3 969	527 423	757 685	-30.39
Sault Ste. Marie	6 342	3 937	61.09	1 239	1 828	-32.22	5 103	2 109	402 805	306 651	31.36
Sudbury	765	5 452	-85.97	1 618	536	201.87	-853	4 916	296 605	62 041	378.08
Total	16 187	22 845	-29.14	12 688	9 724	30.48	3 499	13 121	1 786 473	1 611 936	10.83
Southern Region											

Southern Ontario	837	480	74.38	310	371	-16.44	527	109	42 918	24 878	72.51
Total	837	480	74.38	310	371	-16.44	527	109	42 918	24 878	72.51
TOTAL ALL REGIONS:	34 245	51 402	-33.38	28 486	22 679	25.61	5 759	28 723	4 168 350	3 585 445	16.26

Source: Information and Statistics Section, MNM

CLAIMS AND WORKDAYS REPORT
FROM
ONTARIO MINING RECORDERS' OFFICES

	Oct '88	Oct '87	Oct '88	Oct '87	Oct '88	Oct '87	Oct '88	Oct '87	Oct '88	Oct '87
	claims	claims	claims	claims	recorded minus	man days	% change	% change	worked	% change
	recorded	% change	canceled	% change	canceled					
Northwest Region										

Kenora	336	7.69	93	-49.73	243	127	20	164	59 700	-66.22
Patricia	301	-60.65	190	82.69	111	661	37	415	46 644	-19.79
Red lake	80	-51.52	724	5 469.23	-644	152	82	315	17 391	373.32
Thunder Bay	1 311	2.10	982	933	329	351	167	879	69 050	143.13
Total	2 028	-19.71	1 989	61.05	39	1 291	307	773	192 785	59.65
Northeast Region										

Larder Lake	269	-33.25	444	62.64	-175	130	38	112	49 580	-23.13
Porcupine	215	-68.29	755	62.37	-540	213	45	922	40 273	14.03
Sault Ste. Marie	353	61.93	52	-35.80	301	137	32	163	33 535	-4.09
Sudbury	22	57.14	9	800.00	13	13	5	946	10 883	-45.36
Total	859	-34.58	1 260	53.66	-401	493	122	143	134 271	-9.03
Southern Region										

Southern Ontario	55	61.76	5	-	50	34	1	391	6 276	-77.84
Total	55	61.76	5	-	50	34	1	391	6 276	-77.84
TOTAL ALL REGIONS:	2 942	-24.04	3 254	58.35	-312	1 818	431	307	333 332	29.39

Source: Information and Statistics Section, MNDM

CLAIMS AND WORKDAYS REPORT
FROM
ONTARIO MINING RECORDERS' OFFICES

	Oct '88 claims recorded	Sept '88 % change	Oct '88 claims cancelled	Sept '88 % change	Oct '88 recorded minus cancelled	Sept '88 man days worked	% change
Northwest Region							

Kenora	336	29.23	93	294	-68.37	243	-34
						20 164	27 852
							-27.60
Patricia	301	34.38	190	336	-43.45	111	-112
						37 415	65 910
							-43.23
Red Lake	80	-76.47	724	38	1 805.26	-644	302
						82 315	58 920
							39.71
Thunder Bay	1 311	668	982	1 250	-21.44	329	-582
						167 879	27 218
							516.79
Total	2 028	1 492	1 989	1 918	3.70	39	-426
						307 773	179 900
							71.08
Northeast Region							

Larder Lake	269	257	444	458	-3.06	-175	-201
						38 112	48 974
							-22.18
Porcupine	215	316	755	539	40.07	-540	-223
						45 922	14 516
							216.35
Sault Ste. Marie	353	404	52	77	-32.47	301	327
						32 163	25 651
							25.39
Sudbury	22	32	9	69	-86.96	13	-37
						5 946	6 958
							-14.54
Total	859	1 009	1 260	1 143	10.24	-401	-134
						122 143	96 099
							27.10
Southern Region							

Southern Ontario	55	47	5	41	-87.80	50	6
						1 391	2 928
							-52.49
Total	55	47	5	41	-87.80	50	6
						1 391	2 928
							-52.49
TOTAL ALL REGIONS:	2 942	2 548	3 254	3 102	4.90	-312	-554
						431 307	278 927
							54.63

Source: Information and Statistics Section, MNM



ASSESSMENT WORK REPORT
FROM
ONTARIO MINING RECORDERS' OFFICES
BY MONTH '88 (MAN DAYS)

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Total Jan. - Oct.
Northwest Region											

Kenora	32 586	8 131	32 559	64 025	36 074	130 582	11 813	23 217	27 852	20 164	387 003
Patricia	53 214	10 738	65 549	103 147	37 893	71 732	24 940	44 198	65 910	37 415	514 736
Red Lake	18 240	89 307	36 922	7 619	22 982	31 828	26 322	39 547	58 920	82 315	414 002
Thunder Bay	69 464	198 227	73 661	55 771	89 773	177 277	39 955	123 993	27 218	167 879	1 023 218
Total	173 504	306 403	208 691	230 562	186 722	411 419	103 030	230 955	179 900	307 773	2 338 959
Northeast Region											

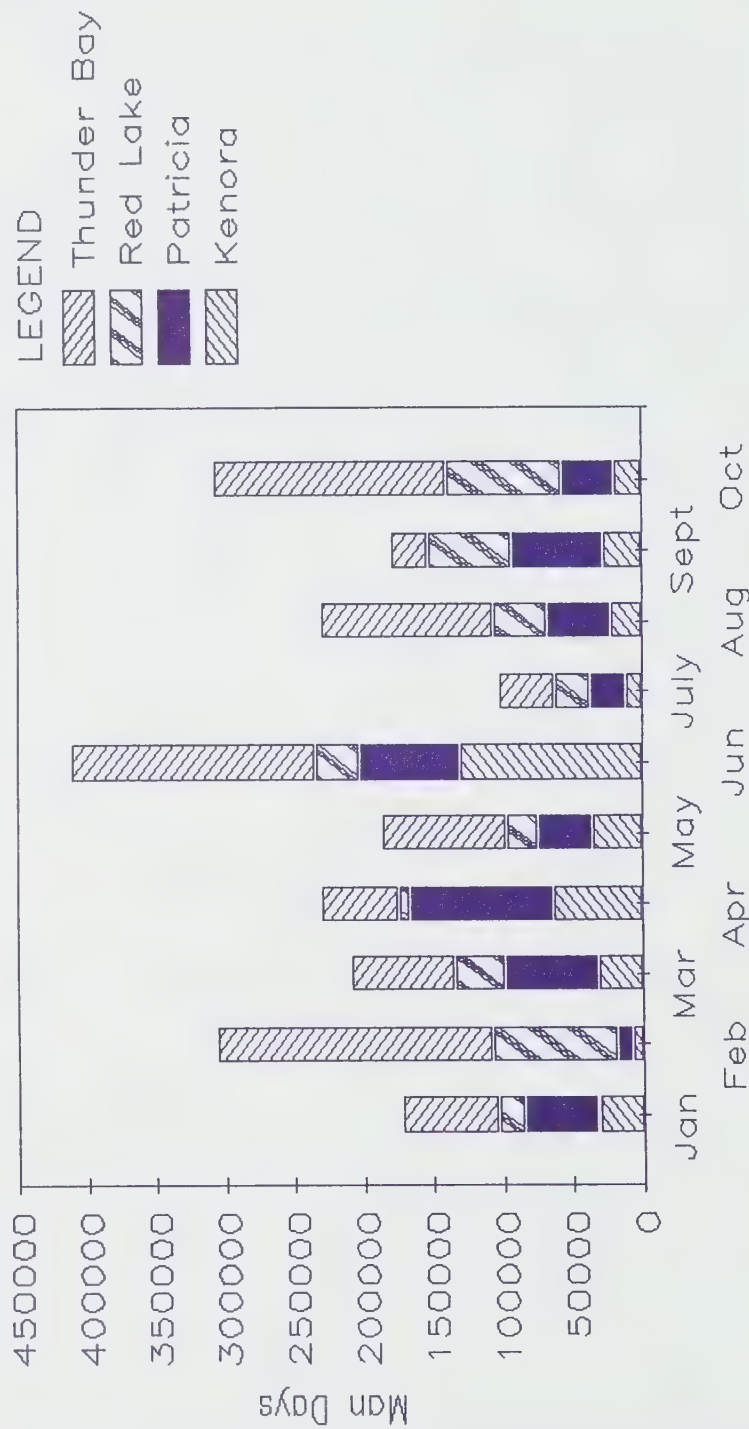
Larder Lake	70 986	37 424	87 935	53 925	96 267	35 650	35 703	54 664	48 974	38 112	559 640
Porcupine	20 851	59 623	93 665	75 773	20 886	149 194	26 850	20 143	14 516	45 922	527 423
Sault Ste. Marie	14 953	46 876	60 549	121 359	20 181	20 942	34 322	25 809	25 651	32 163	402 805
Sudbury	4 757	80 789	3 555	65 569	101 319	10 986	2 757	13 969	6 958	5 946	296 605
Total	111 547	224 712	245 704	316 626	238 653	216 772	99 632	114 585	96 099	122 143	1 786 473
Southern Region											

Southern Ontario	3 262	2 840	8 972	4 232	5 228	3 390	5 082	5 593	2 928	1 391	42 918
Total	3 262	2 840	8 972	4 232	5 228	3 390	5 082	5 593	2 928	1 391	42 918
TOTAL ALL REGIONS:	288 313	533 955	463 367	551 420	430 603	631 581	207 744	351 133	278 927	431 307	4 168 350

Source: Information and Statistics Section, MNDM

TOTAL ASSESSMENT WORK IN NORTHWEST REGION

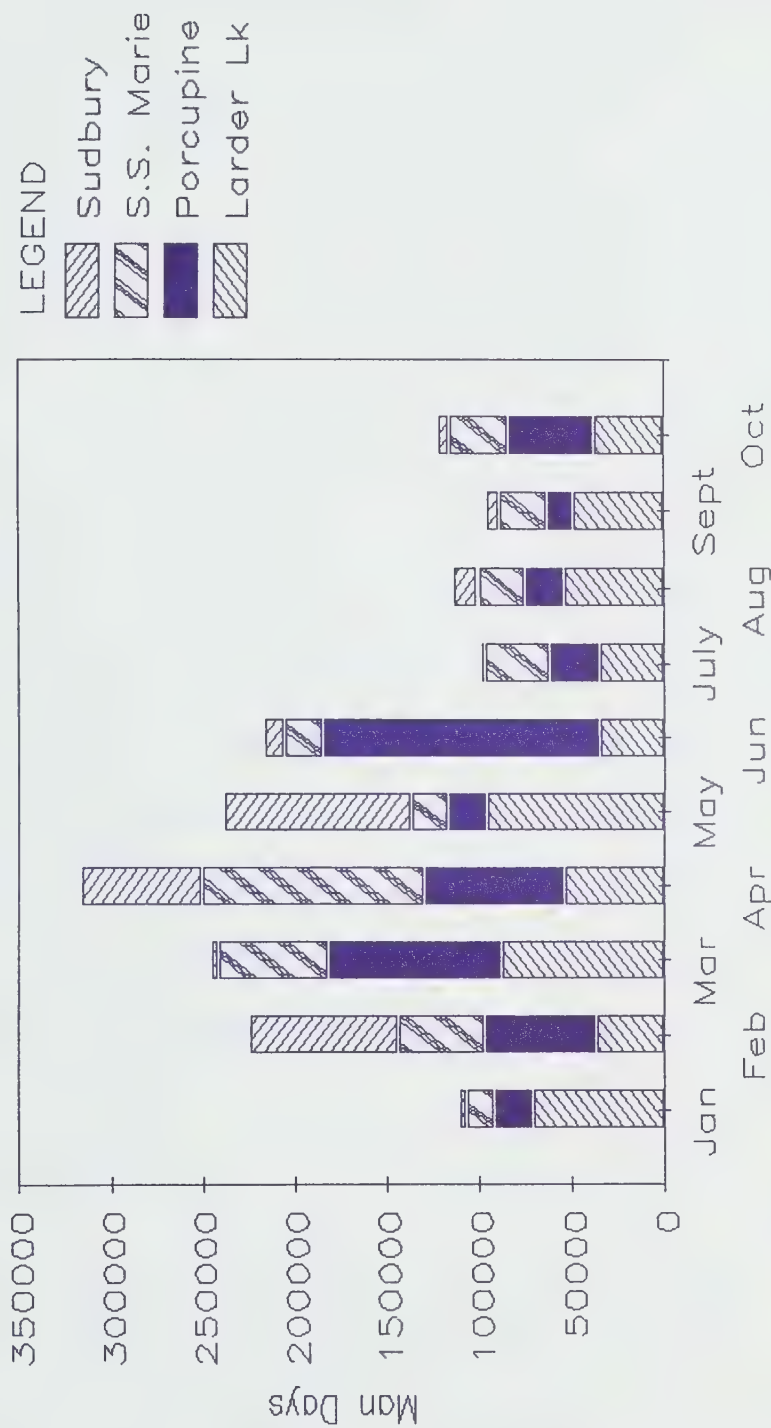
BY MONTH
JAN.—OCT., 1988



Source: Information and Statistics Section, MNM

TOTAL ASSESSMENT WORK IN NORTHEAST REGION

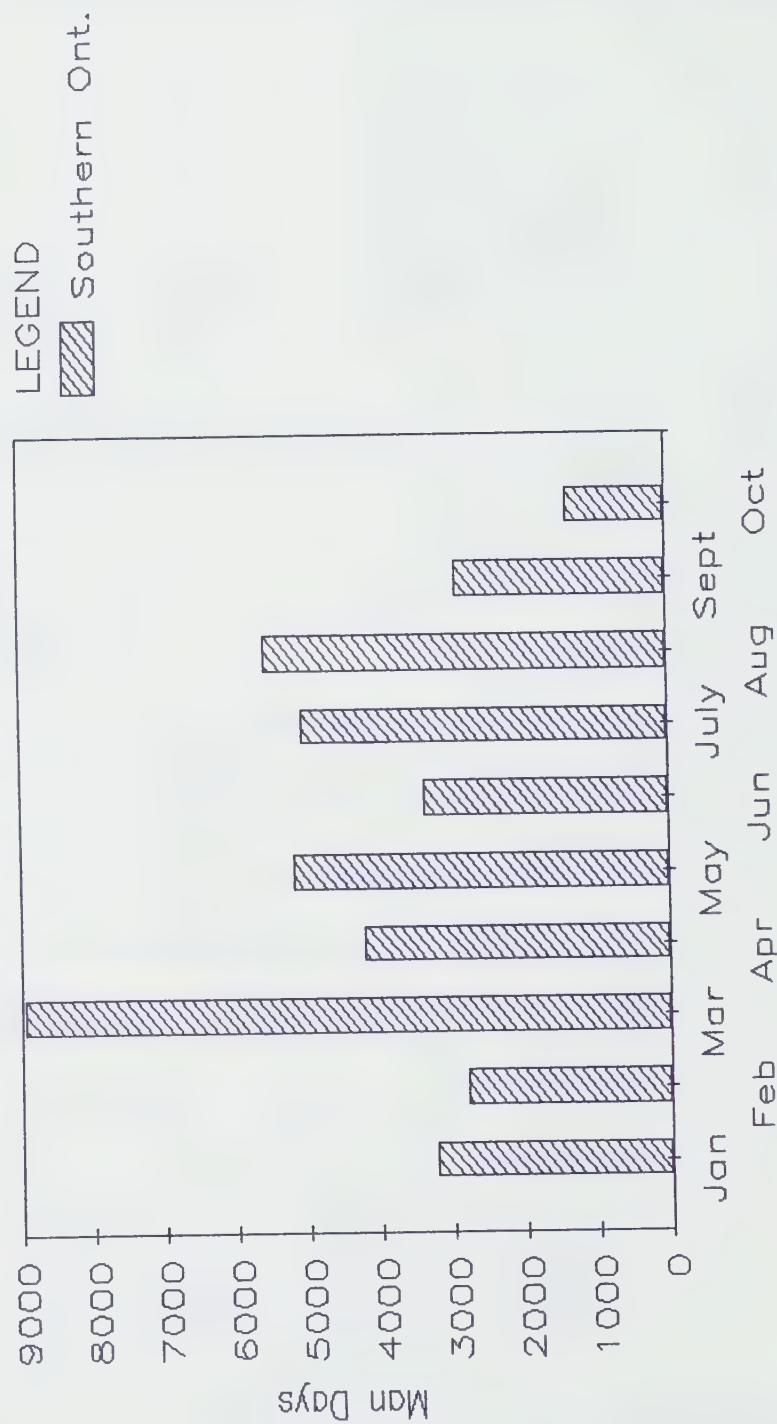
BY MONTH
JAN.-OCT. 1988



Source: Information and Statistics Section, MNM

TOTAL ASSESSMENT WORK IN SOUTHERN REGION

BY MONTH
JAN.—OCT. 1988



Source: Information and Statistics Section, MNM

PROSPECTORS' LICENCES REPORT
FROM
ONTARIO MINING RECORDERS' OFFICES
ISSUED BY MONTH '88

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Total Jan. - Oct.
Northwest Region											

Kenora	2	4	3	12	15	11	12	6	8	2	75
Patricia	2	3	8	2	8	3	8	6	3	1	44
Red Lake	3	4	17	5	5	2	3	11	4	3	57
Thunder Bay	33	24	23	66	94	30	21	17	34	49	391
Total	40	35	51	85	122	46	44	40	49	55	567
Northeast Region											

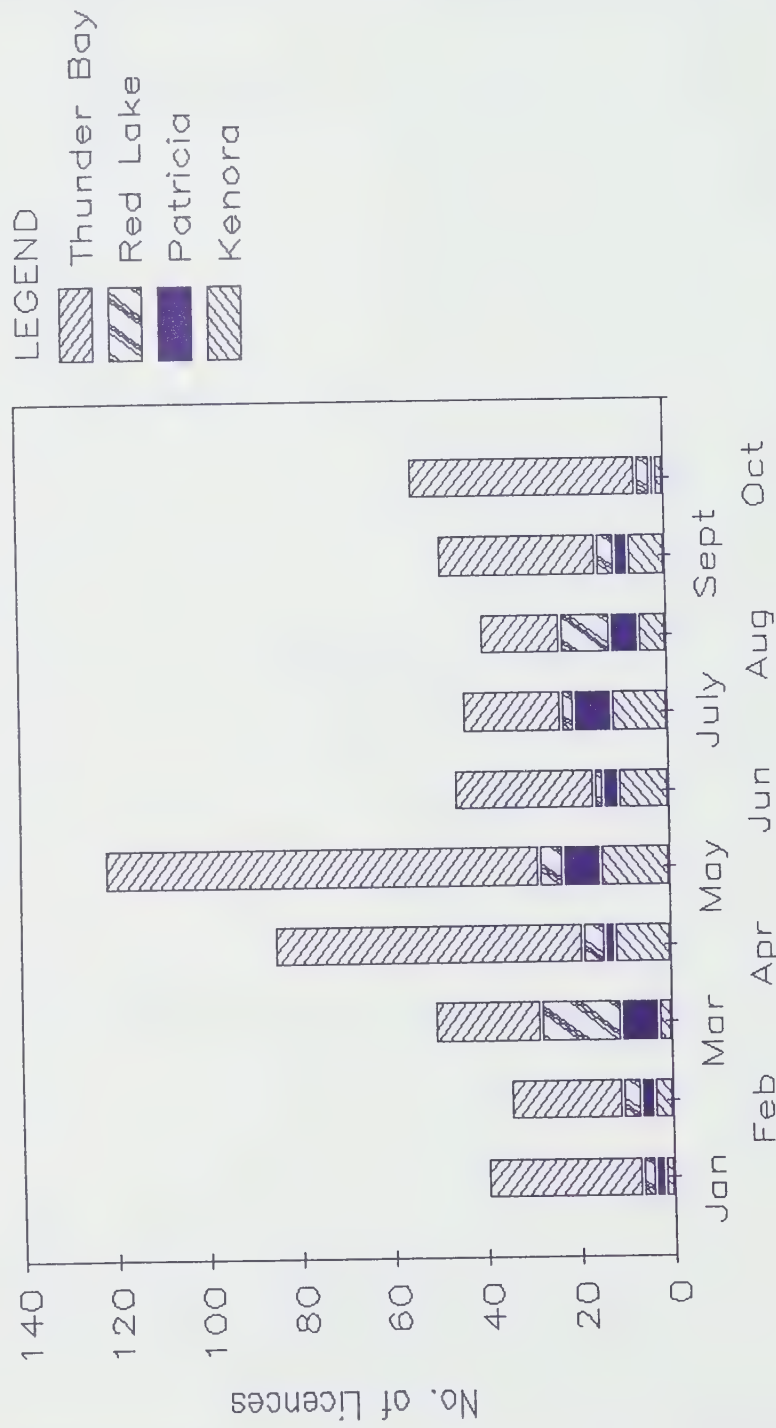
Larder Lake	11	7	25	25	29	16	11	14	3	15	156
Porcupine	8	6	40	19	33	15	20	13	15	11	180
Sault Ste. Marie	10	4	7	10	5	12	2	9	9	5	73
Sudbury	6	3	27	28	43	19	10	19	14	6	175
Total	35	20	99	82	110	62	43	55	41	37	584
Southern Region											

Southern Ontario	42	33	71	45	39	46	84	36	37	20	453
Total	42	33	71	45	39	46	84	36	37	20	453
TOTAL ALL REGIONS:	117	88	221	212	271	154	171	131	127	112	1 604

Source: Information and Statistics Section, MNDM

PROSPECTORS' LICENCES ISSUED IN NORTHWEST REGION

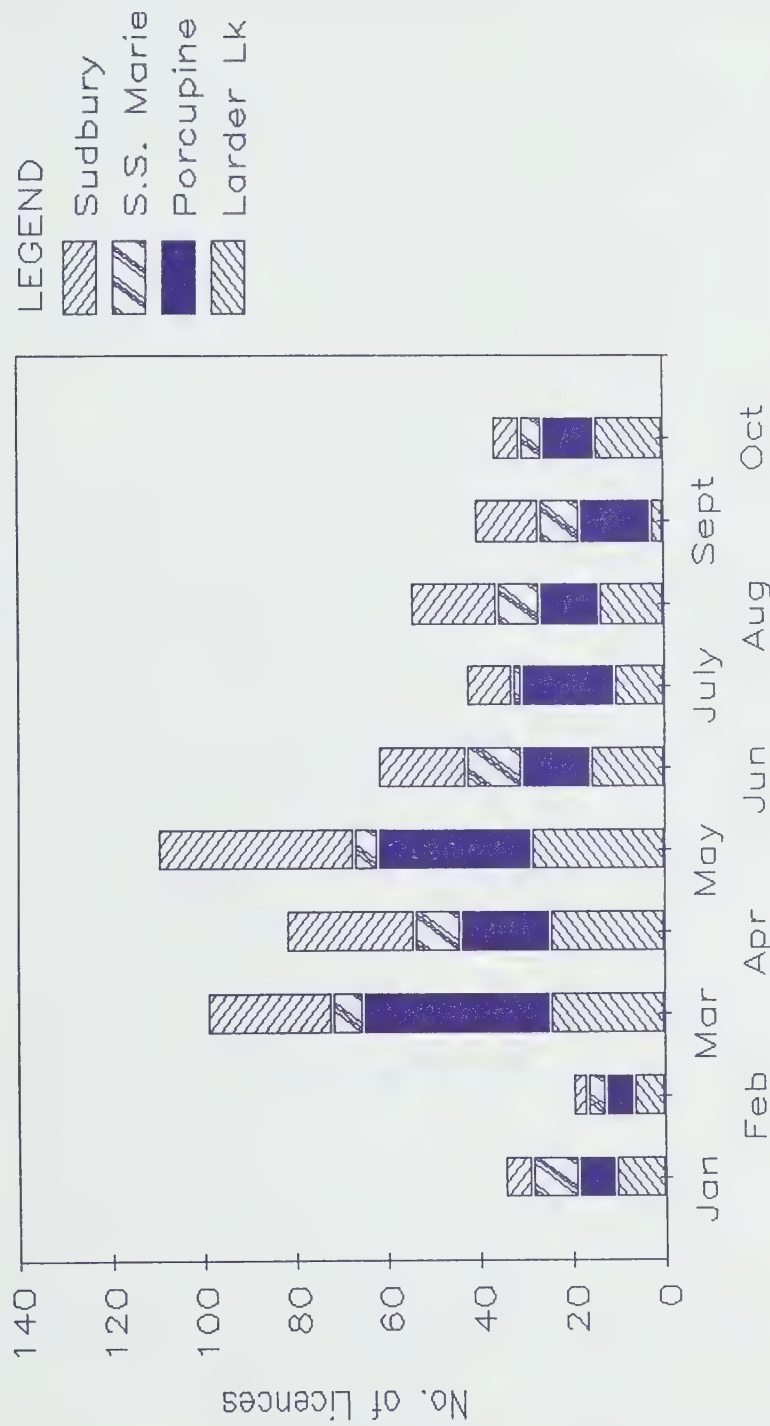
BY MONTH
JAN.—OCT. 1988



Source: Information and Statistics Section, MNM

PROSPECTORS' LICENCES ISSUED IN NORTHEAST REGION

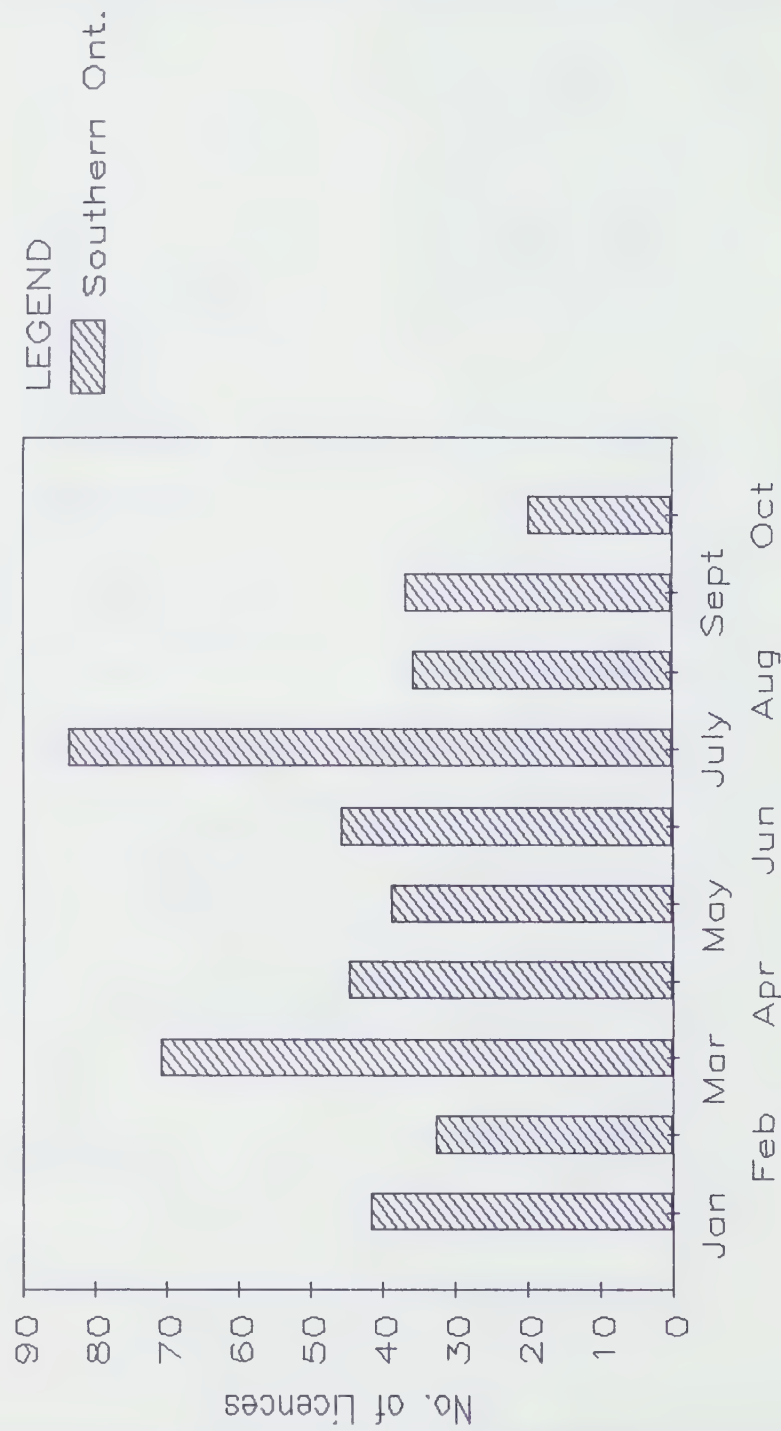
BY MONTH
JAN.—OCT. 1988



Source: Information and Statistics Section, MNDM

PROSPECTORS' LICENCES ISSUED IN SOUTHERN REGION

BY MONTH
JAN.—OCT. 1988



Source: Information and Statistics Section, MNDM

PROSPECTORS' LICENCES REPORT
FROM
ONTARIO MINING RECORDERS' OFFICES
RENEWED BY MONTH '88

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Total Jan. - Oct.
Northwest Region											

Kenora	12	26	68	21	7	1	0	1	3	2	141
Patricia	0	7	56	8	5	0	0	1	1	0	78
Red Lake	7	18	33	10	6	2	0	4	0	0	80
Thunder Bay	67	122	239	92	24	2	1	7	3	3	560
Total	86	173	396	131	42	5	1	13	7	5	859
Northeast Region											

Larder Lake	26	43	178	16	6	2	2	0	0	2	275
Porcupine	28	68	216	84	27	13	2	4	4	4	450
Sault Ste. Marie	10	24	56	16	8	4	2	6	1	4	131
Sudbury	14	48	213	26	4	0	0	0	3	0	308
Total	78	183	663	142	45	19	6	10	8	10	1 164
Southern Region											

Southern Ontario	81	286	1 013	144	62	25	36	12	13	7	1 679
Total	81	286	1 013	144	62	25	36	12	13	7	1 679
TOTAL ALL REGIONS:	245	642	2 072	417	149	49	43	35	28	22	3 702

Source: Information and Statistics Section, MNDM

PROSPECTORS' LICENCES REPORT

FROM

ONTARIO MINING RECORDERS' OFFICES

(ISSUED AND RENEWED OCTOBER '88 VS SEPTEMBER '88)

	October '88		September '88		% change	
	Issued	Renewed	Issued	Renewed	Issued	Renewed
Northwest Region						

Kenora	2	2	8	3	-75.00	-33.33
Patricia	1	0	3	1	-66.67	-100.00
Red Lake	3	0	4	0	-25.00	..
Thunder Bay	49	3	34	3	44.12	..
Total	55	5	49	7	12.24	-28.57
Northeast Region						

Larder Lake	15	2	3	0	400.00	0.00
Porcupine	11	4	15	4	-26.67	..
Sault Ste. Marie	5	4	9	1	-44.44	300.00
Sudbury	6	0	14	3	-57.14	-100.00
Total	37	10	41	8	-9.76	25.00
Southern Region						

Southern Ontario	20	7	37	13	-45.95	-46.15
Total	20	7	37	13	-45.95	-46.15
TOTAL ALL REGIONS:	112	22	127	28	-11.81	-21.43

Source: Information and Statistics Section, MNM

... not applicable

PROSPECTORS' LICENCES REPORT

FROM

ONTARIO MINING RECORDERS' OFFICES

(ISSUED AND RENEWED OCTOBER '88 VS OCTOBER '87)

	October '88		October '87		% change	
	Issued	Renewed	Issued	Renewed	Issued	Renewed
Northwest Region						

Kenora	2	2	5	1	-60.00	100.00
Patricia	1	0	4	0	-75.00	..
Red Lake	3	0	8	0	-62.50	..
Thunder Bay	49	3	17	0	188.24	0.00
Total	55	5	34	1	61.76	400.00
Northeast Region						

Larder Lake	15	2	14	3	7.14	-33.33
Porcupine	11	4	16	4	-31.25	..
Sault Ste. Marie	5	4	4	0	25.00	0.00
Sudbury	6	0	10	4	-40.00	-100.00
Total	37	10	44	11	-15.91	-9.09
Southern Region						

Southern Ontario	20	7	37	4	-45.95	75.00
Total	20	7	37	4	-45.95	75.00
TOTAL ALL REGIONS:	112	22	115	16	-2.61	37.50

Source: Information and Statistics Section, MNDM

not applicable



Ministry of
Northern Development
and Mines